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409

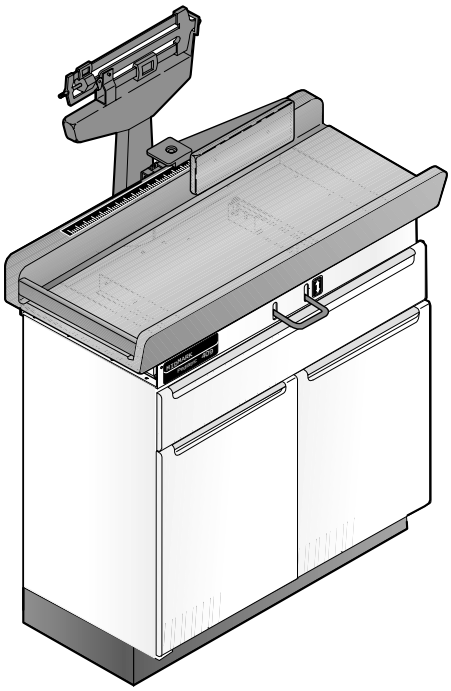
-004 thru -007

Pediatric Examination Table

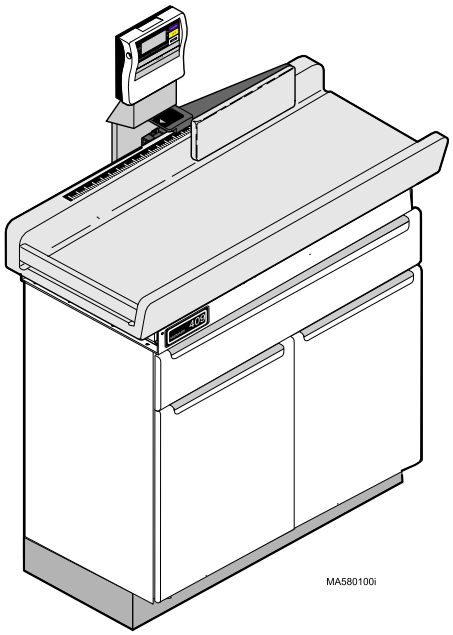
MIDMARK®

Service and Parts Manual

Serial Number Prefixes:
RG, RH, RJ, RK, RL, RM



409-004 & 409-005



409-006 & 409-007

409 -004 thru -007

FOR USE BY MIDMARK TRAINED TECHNICIANS ONLY

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General Safety Instructions

Safety First: The primary concern of Midmark Corporation is that this table is maintained with the safety of the patient and staff in mind. To assure that services and repairs are completed safely and correctly, proceed as follows:

(1) Read this entire manual before performing any services or repairs on this table.

(2) Be sure you understand the instructions contained in this manual before attempting to service or repair this table.

Safety Alert Symbols

Throughout this manual are safety alert symbols that call attention to particular procedures. These items are used as follows:

DANGER

A DANGER is used for an imminently hazardous operating procedure, practice, or condition which, if not correctly followed, will result in loss of life or serious personal injury.

WARNING

A WARNING is used for a potentially hazardous operating procedure, practice, or condition which, if not correctly followed, could result in loss of life or serious personal injury.

CAUTION

A CAUTION is used for a potentially hazardous operating procedure, practice, or condition which, if not correctly followed, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

EQUIPMENT ALERT

An EQUIPMENT ALERT is used for an imminently or potentially hazardous operating procedure, practice, or condition which, if not correctly followed, will or could result in serious, moderate, or minor damage to unit.

NOTE

A NOTE is used to amplify an operating procedure, practice or condition.

Warranty Instructions

Refer to the Midmark “Limited Warranty” printed in the Installation and Operation Manual for warranty information. Failure to follow the guidelines listed below will void the warranty and/or render the 409 Pediatric Examination Table unsafe for operation.

- In the event of a malfunction, do not attempt to operate the table until necessary repairs have been made.
- Do not attempt to disassemble table, replace malfunctioning or damaged components, or perform adjustments unless you are one of Midmark’s authorized service technicians.
- Do not substitute parts of another manufacturer when replacing inoperative or damaged components. Use only Midmark replacement parts.

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SECTION I
GENERAL INFORMATION

1.1 Scope of Manual

This manual contains detailed troubleshooting, scheduled maintenance, maintenance, and service instructions for the 409 Pediatric Exam Table. This manual is intended to be used by Midmark's authorized service technicians.

1.2 How to Use Manual

A. Manual Use When Performing Scheduled Maintenance.

(1) Perform inspections and services listed in Scheduled Maintenance Chart (Refer to para 3.1 or 3.2).

(2) If a component is discovered to be faulty or out of adjustment, replace or adjust component in accordance with maintenance / service instructions (Refer to para 4.1).

B. Manual Use When Table Is Malfunctioning And Cause Is Unknown.

(1) Perform an operational test on Table (Refer to para 2.1 or 2.2).

(2) Perform troubleshooting procedures listed in Troubleshooting Guide (Refer to para 2.3 or 2.4).

(3) If a component is discovered to be faulty or out of adjustment, replace or adjust component in accordance with maintenance / service instructions (Refer to para 4.1).

C. Manual Use When Damaged Component Is Known.

(1) Replace or adjust component in accordance with maintenance / service instructions (Refer to para 4.1).

1.3 Description of 409 Pediatric Exam Table

A. General Description (See Figure 1-1).

The 409 Pediatric Examination Table is a table designed to be used by physicians and office staff to conduct routine medical examinations and measurements on pediatric patients weighing between 7.0 to 40.0 lbs (3.2 to 18.1 kg) and measuring 15.0 to 36.0 in. (38.1 to 91.4 cm) in length. Listed below are the four different models available:

409-004	Exam Table with mechanical scale
409-005	Exam Table without mechanical scale
409-006	Exam Table with digital scale
409-007	Exam Table without digital scale

The major serviceable components of the 409-004 table (table with mechanical scale) are the beam scale components which include the "0" balance screw & weight, platform components, linear scale, and table top locking mechanism. The major serviceable component of the 409-005 table (table without mechanical scale) is the linear scale (See Figure 1-1).

The major serviceable components of the 409-006 table (table with digital scale) are the digital display (which includes display board assembly), platform components (which includes load cell assembly), and linear scale. The major serviceable component of the 409-007 table (table without digital scale) is the linear scale (See Figure 1-1).

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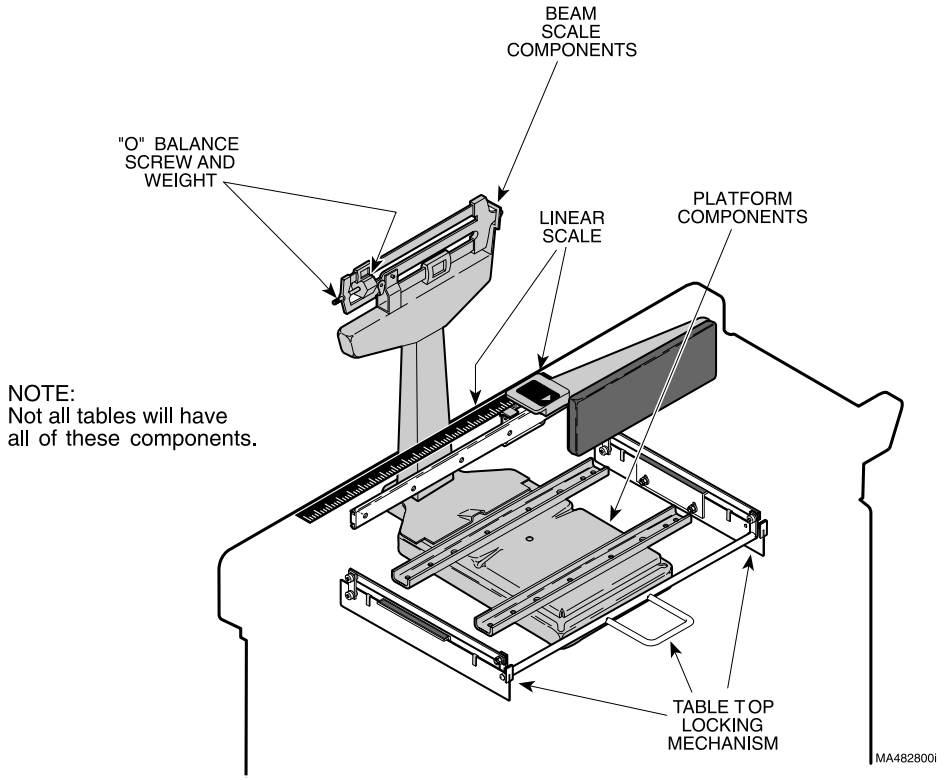
SECTION I
GENERAL INFORMATION

409-004 and 409-005



409-006 and 409-007

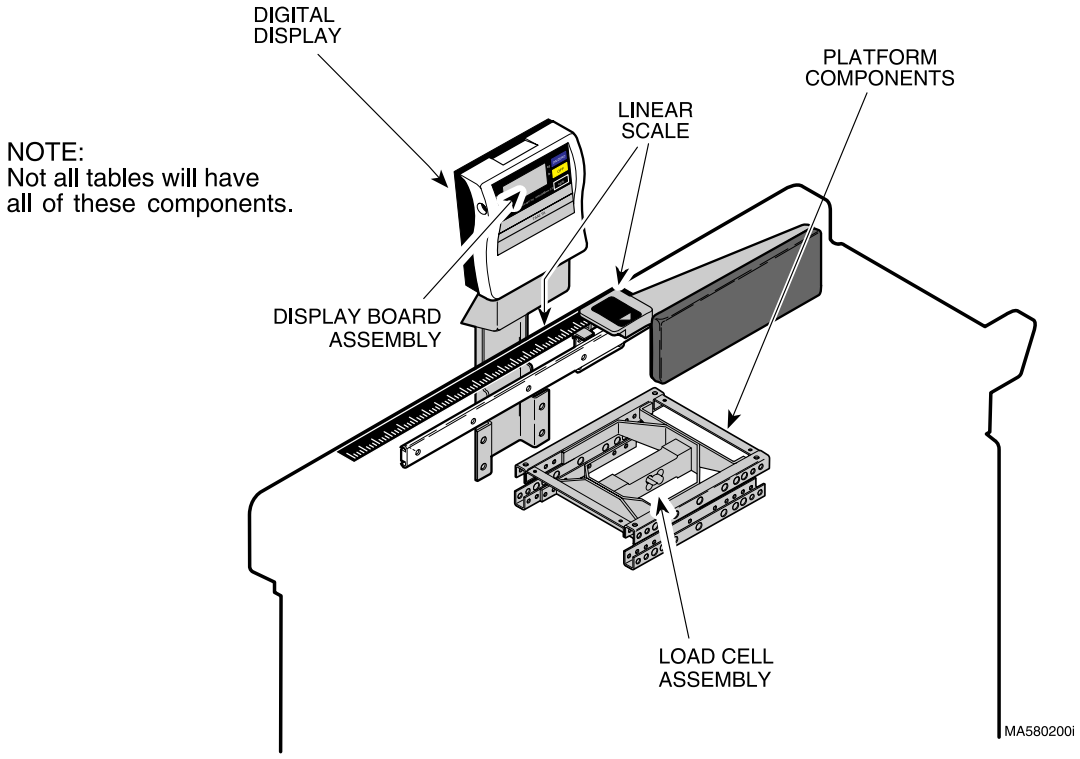


Figure 1-1. Major Components

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1.4 Specifications

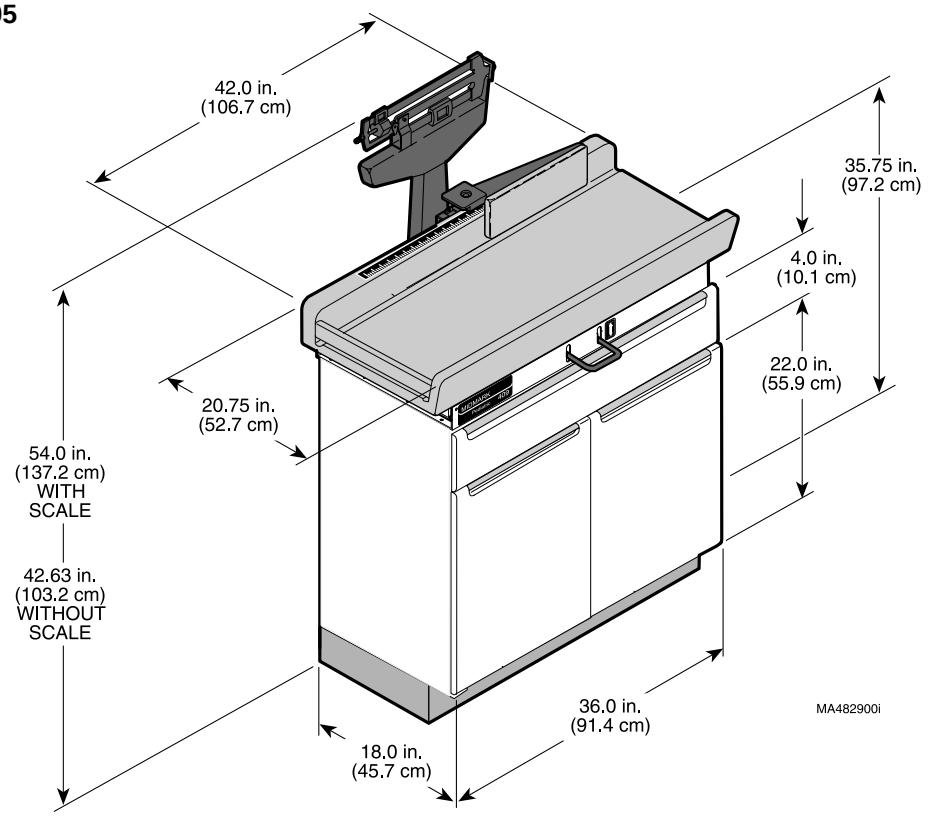
Factual data for the 409 Pediatric Examination Table is provided in Table 1-1. Also, see Figure 1-2.

Table 1-1. Specifications

Description	Data
Patient Weight (409-004/409-005):	
Maximum For Examination	100 lbs (45.4 kg)
Maximum For Weighing	40 lbs (18.1 kg)
Patient Weight (409-006/409-007):	
Maximum For Examination	100 lbs (45.4 kg)
Maximum For Weighing	40 lbs (18.1 kg)
Weight of 409-004 Unit:	
Boxed Weight	242.0 lbs (109.8 kgs)
Unboxed Weight	188.0 lbs (85.3 kgs)
Weight of 409-005 Unit:	
Boxed Weight	215.0 lbs (97.5 kgs)
Unboxed Weight	161.0 lbs (73.0 kgs)
Weight of 409-006 Unit:	
Boxed Weight	xxx.0 lbs (xxx.x kgs)
Unboxed Weight	xxx.0 lbs (xx.x kgs)
Weight of 409-007 Unit:	
Boxed Weight	215.0 lbs (97.5 kgs)
Unboxed Weight	161.0 lbs (73.0 kgs)
Shipping Carton:	45.0 in. "L" x 28.75 in. "W" x 43.0 in. "H" (114.3 cm x 73.0 cm x 109.2 cm)
Dimensions (409-004/409-005):	
Upholstered Top	20.75 in. wide x 42.0 in. long (52.7 cm wide x 106.7 cm long)
Table Top Work Height	35.75 in. (97.2 cm)
Overall Height (w/scale)	54 in. (137.2 cm)
Overall Height (w/o scale)	40.625 in. (103.2 cm)
Overall Depth (w/scale)	25.5 in. (64.8 cm)
Overall Depth (w/o scale)	21.75 (55.2 cm)
Overall Width	42.0 in. (106.7 cm)
Dimensions (409-006/409-007):	
Upholstered Top	20.75 in. wide x 41.875 in. long (52.7 cm wide x 106.4 cm long)
Table Top Work Height	36.0 in. (91.4 cm)
Overall Height (w/scale)	51.25 in. (130.2 cm)
Overall Height (w/o scale)	40.75 in. (103.5 cm)
Overall Depth (w/scale)	22.5 in. (57.1 cm)
Overall Depth (w/o scale)	21.5 (54.6 cm)
Overall Width	41.875 in. (106.4 cm)
Beam Scale Accuracy (409-004):	
up to 18.0 lbs (8.2 kg) is:	±1 oz. (28.3 g)
between 18-40 lbs (8.2 - 18.1 kg) is:	± 2 oz. (56.6.g)
over 40.0 lbs (18.1 kg) is:	± 4 oz. (113.3 g)
Beam Scale Readout Increments (409-004):	minimum increment is 1 oz. (20 g)
Digital Scale Accuracy (409-006):	
0 - 11 lbs (0 - 5 kg) is:	±1.75 oz. (50 g)
11 - 40 lbs (5 - 18 kg) is:	±3.5 oz. (100 g)
[Serial #'s PP1143 thru present only register to 40 lbs]	
40 - 100 lbs (18 - 45 kg) is:	±5.25 oz. (150 g)
Digital Scale Readout Minimum Increments (409-006):	
Serial #'s: PP1000 thru PP1142	0.2 lb (0.09 kg)
Serial #'s: PP1143 thru present	0.06 lb (.03 kg)
Digital Scale Specifications:	
Type Measurement	Electrical Resistance Method
Power Source	Six LR6 Alkali Batteries or AC Adapter - 9V, 300mA or more center minus plug
Battery Life	100 Hours Continuous Use
Power Consumption	0.25 Watts maximum
Display	LCD with 1 in. (25mm) numerals
Linear Scale Accuracy:	± 1/8 in. (0.32 cm)
Linear Scale Readout Minimum Increments:	1/8 in. (0.5 cm)
Certifications:	ISO-9001 Certified

SECTION I
GENERAL INFORMATION

409-004 and 409-005



409-006 and 409-007

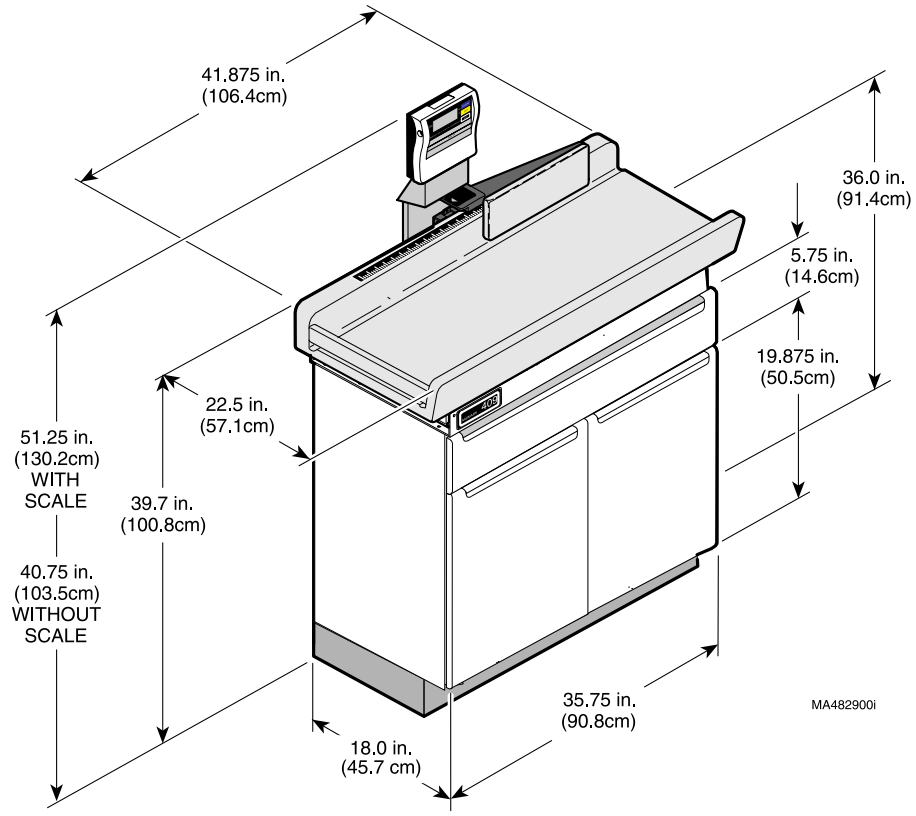


Figure 1-2. Dimensions

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SECTION I
GENERAL INFORMATION

1.5 Standard Torque Specifications

The following standard torque specifications in Table 1-2 apply to the various hardware used on the units unless otherwise listed elsewhere in service procedures or parts illustrations:

Table 1-2. Torque Specifications

Hardware Size	Torque Values
#6	11 to 21 inch / lbs. (1.2 to 2.3 N•M)
#8	20 to 30 inch / lbs. (2.2 to 3.3 N•M)
#10	32 to 42 inch / lbs. (3.6 to 4.8 N•M)
1/4"	75 to 85 inch / lbs. (8.5 to 9.6 N•M)
5/16"	18 to 22 foot / lbs. (24.4 to 29.8 N•M)
3/8"	31 to 35 foot / lbs. (42.0 to 47.5 N•M)
1/2”	50 to 60 foot / lbs. (67.8 to 81.4 N•M)

1.6 Parts Replacement Ordering

If a part replacement is required, order the part directly from the factory as follows:

(1) Refer to Figure 1-3 to determine the location of the model number and serial number of the table and record this data.

(2) Refer to the Parts List to determine the item numbers of the parts, part numbers of the parts, descriptions of the parts, and quantities of parts needed and record this data (Refer to para 6.1).

NOTE
Ask the Purchasing Department of the company that owns the unit for this information. Otherwise, this information may be obtained from the dealer that sold the unit.

(3) Determine the installation date of the table and record this data.

(4) Call Midmark with the recorded information and ask for the Medical Products Technical Services Department. See back cover of this manual for the phone number or use the Fax Order Form (See page 7-2 for Fax Order Form).

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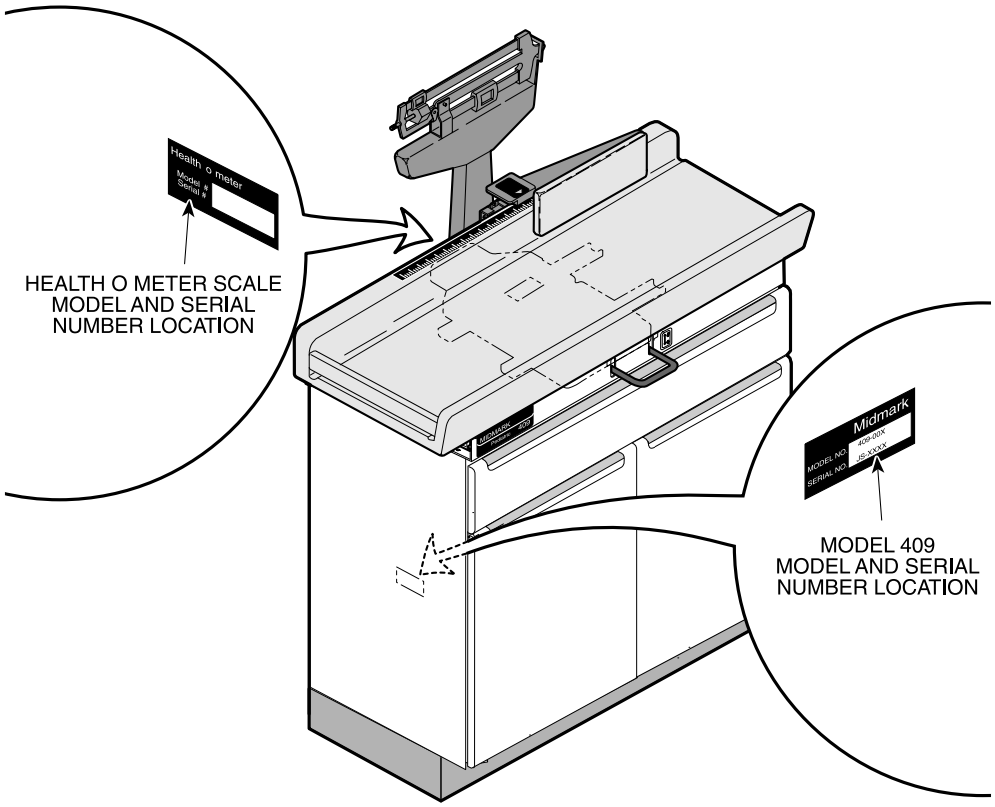
SECTION I
GENERAL INFORMATION

409-004 and 409-005



409-006 and 409-007

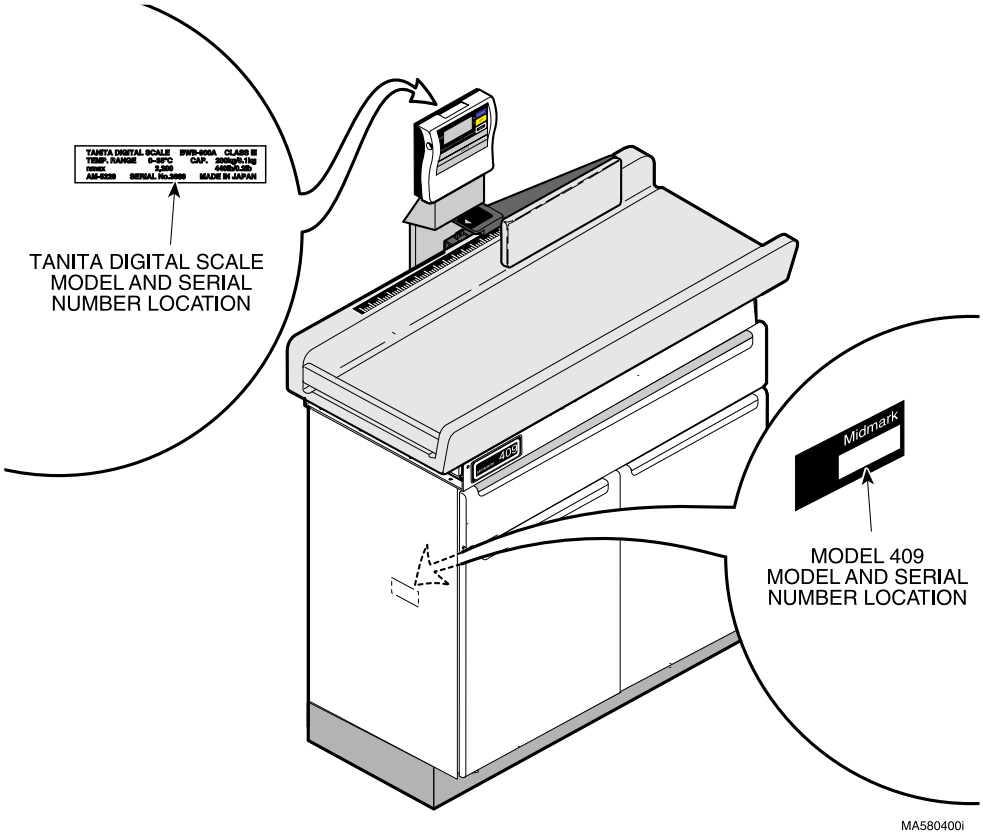


Figure 1-3. Model Number / Serial Number Location

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1.7 Special Tools

Table 1-3 lists all of the special tools needed to repair the table, how to obtain the special tools, and the purpose of each special tool.

Table 1-3. Special Tool List

Description of Special Tool	Manufacturer's Name / Address / Phone	Manufacturer's Part Number	Purpose of Special Tool
Calibrated Test Weight (included with & applies only to 409-004 table)	Midmark Corporation 60 Vista Drive Versailles, Ohio 45380 937-526-3662	050-4086-10	Used to calibration of the beam scale. A calibrated test weight is included with each table from the factory. The test weight should be hanging on the right rear of the table on a hook.
200kg or 440 lb Calibrated Test Weight (applies to 409-006 table)	Commercially Available	Any Type	Used to calibrate digital scale.
50 lb Calibrated Test Weight	Commercially Available	Any Type	Used to check digital scale calibration.
Soldering iron & solder	Commercially Available	Any Type	Used to desolder/solder two battery leads to display board assembly when it is being replaced.
Torque Wrench	Commercially Available	Any Type	Used to tighten nuts or screws to specified values.

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SECTION I
GENERAL INFORMATION

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SECTION II
TESTING AND TROUBLESHOOTING

2.1 Operational Test (Models 409-004 and 409-005) (See Figure 2-1)

In order to effectively diagnose a malfunction of the 409-004 and 409-005 Pediatric Examination Table, it may be necessary to perform an operational test as follows:

WARNING
Refer to the Operator Manual for complete instructions on operating the table. Failure to do so could result in personal injury.

NOTE
The Operational Test, for the most part, only describes what should happen when the table is operated. If the table does something other than described, a problem has been discovered. Refer to the Troubleshooting Guide to determine the cause of the problem and its correction.

Also, this operational test procedure is based on units that have a beam scale; some units do not have a beam scale - For these units skip to step 14.

(1) Move table top locking handle to LOCK position. Attempt to move table top (See Figure 2-1).

(2) Observe. The table top should be firmly locked into a stationary position.

(3) Move table top locking handle to UNLOCK position.

(4) Observe. The table top should not be locked into a stationary position anymore. Look between table top and base. There should be approximately a 1/4 in. (6.35 mm) gap between locking rails and bottom of table top; at the very least, there should not be any contact.

(5) Push down on center of table top a few times to align and exercise all internal scale parts.

(6) Remove any items from table top. Set large poise weight to zero, making sure it is seated in notch and set small poise weight to zero, making sure small poise weight is pushed firmly against shoulder of beam.

(7) Observe. The beam pointer should balance in center of trig square, indicating scale is zeroed.

NOTE
Use the calibrated test weight which should be hanging on a storage hook on the right rear of the table. The test weight will have a label indicating the calibrated weight of the test weight.

(8) Place the calibrated test weight on center of upholstered table top.

(9) Using the large poise weight and small poise weight, set beam scale to a setting which is equal to calibrated test weight.

(10) Observe. The beam pointer should center in the trig square indicating beam scale is within tolerance.

(11) If beam scale does not center, adjust the small poise weight and/ or large poise weight as necessary to center beam pointer in trig square.

(12) Determine how much beam scale reading differs from weight of calibrated test weight. The allowable tolerance is ±1 oz. (28.3 g).

(13) Hang the calibrated test weight on its storage hook, located on right rear of table.

(14) Remove any items from table top and then move table top locking handle to LOCK position.

(15) Extend linear scale fully. Using a carpenter square, check to see if the linear scale is square with back of table top when scale is fully extended.

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SECTION II
TESTING AND TROUBLESHOOTING

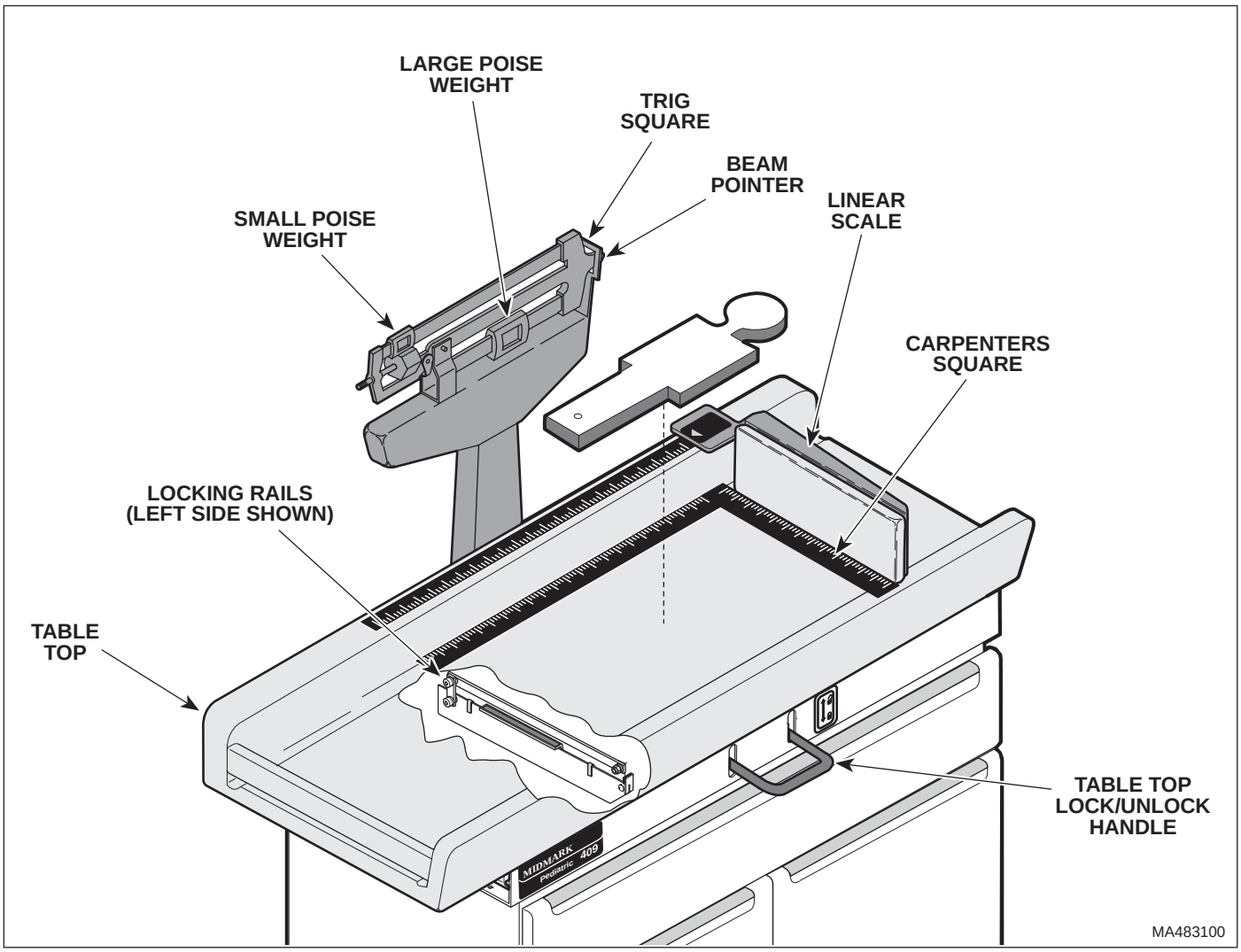

Figure 2-1. Operational Test (Models 409-004 & 409-005)

2.2 Operational Test (Models 409-006 and 409-007) (See Figure 2-2)

In order to effectively diagnose a malfunction of the 409-006 and 409-007 Pediatric Examination Table, it may be necessary to perform an operational test as follows:

WARNING
Refer to the Operator Manual for complete instructions on operating the table. Failure to do so could result in personal injury.

NOTE
The Operational Test, for the most part, only describes what should happen when the table is operated. If the table does something other than described, a problem has been discovered. Refer to the Troubleshooting Guide to determine the cause of the problem and its correction.

Also, this operational test procedure is based on units that have a digital scale; some units do not have a digital scale - For these units skip to step 7.

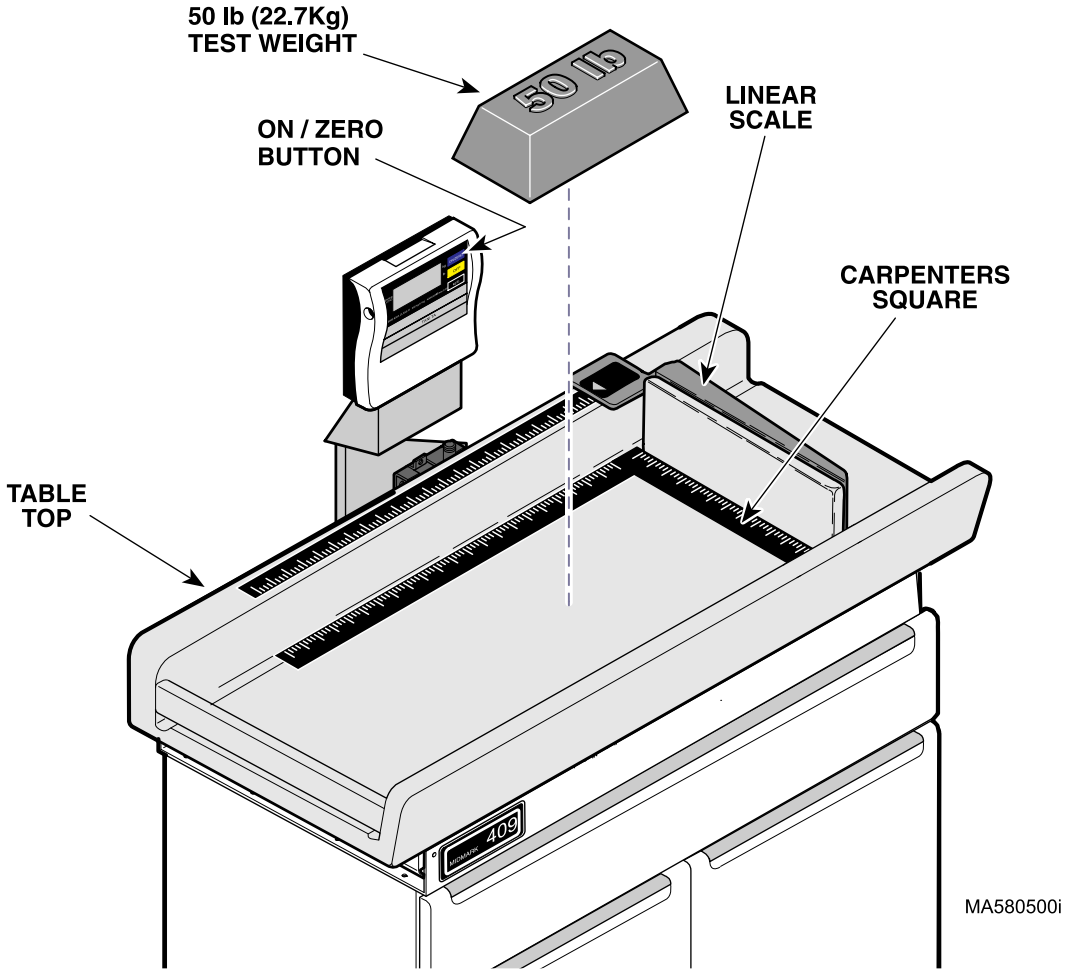

Figure 2-2. Operational Test (Models 409-006 & 409-007)

(1) Press **ON / ZERO** button to turn digital scale ***ON***.

(2) Observe. The display should flash

MA580900i

momentarily and then the display should display

MA581000

Make sure all LCD segments illuminate properly.

(3) Check all functions of digital display (Reference TANITA BWB-800 operating Instructions Manual).

(4) Press **KG / LB** button until display is set to ***LB***.

NOTE
Use the calibrated test weight to perform the following procedure.

(5) Place a calibrated 50 lb (22.7 kg) test weight on center of table top.

(6) Determine how much digital scale reading differs from weight of calibrated test weight. The allowable tolerance is ±5.25 oz. (150 g).

(7) Remove calibrated test weight and then press **ON / ZERO** to turn digital scale ***OFF***.

(8) Extend linear scale fully. Using a carpenter square, check to see if the linear scale is square with back of table top when scale is fully extended.

2.3 Troubleshooting Procedures (Applies to 409-004 and 409-005)

Table 2-1 is a Troubleshooting Guide which is used to determine the cause of the malfunction. This guide covers problems with scale platform components, beam scale components, and linear scale components which the model 409-004 has. The model 409-005 does not have a scale platform or beam scale; it only has a linear scale. For this model, only use the portion of the guide which is applicable.

Table 2-1. Troubleshooting Guide (Models 409-004 & 409-005)

Problem	Symptom	Probable Cause	Check	Correction
Table top will not lock into stationary position properly.	When table top locking handle is moved to the LOCK position, the table top is not locked into stationary position (can still be moved).	Table top locking mechanism has bent, broken, or missing components.	Check for bent, broken, or missing components.	Replace any bent, broken, or missing components on the table top locking mechanism. Refer to para 4.5 to gain access.
		Platform has worn “V” bearings or a broken pivot.	Check for worn “V” bearings or a broken pivot.	Replace platform assembly and beam scale assembly (are a factory matched unit). Refer to para 4.2 and 4.5.
Weight scale does not measure weight accurately.	The beam pointer will not center when the large and small poise weights are set to zero.	The beam scale is not zeroed.	Check to see if the beam pointer centers when the large and small poise weights are set to zero.	If beam pointer does not center when the large and small poise weights are set to zero, perform a zero balance adjustment. Refer to para 4.3.
	The measured weight of the patient is inaccurate.	Paper roll is interfering with table top.	Check to see if paper roll is in contact with bottom of table top.	Reduce thickness of paper roll or remove paper roll.
		Locking rails are not releasing properly when table top locking handle is moved to the UNLOCK position.	Check for bent or missing components in table top locking mechanism. See why locking rails are “hanging up”.	Repair or replace any bent, broken, or missing components on the table top locking mechanism. Refer to para 4.5 to gain access.

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Table 2-1. Troubleshooting Guide (Models 409-004 & 409-005) - Continued

Problem	Symptom	Probable Cause	Check	Correction
		Table is not level.	Check to see if table top is level.	Adjust four leveling screws, located on base of table, to level table.
		Beam pointer is touching the the side of the trig square during its travel.	Press down on the center of the table top while observing the beam pointer.	Replace platform assembly and beam scale assembly (are a factory matched unit). Refer to para 4.2 and 4.5.
		Patient is not being centered on the table top before being weighed.	Check to see if table operator is positioning patient properly.	Inform operator of correct patient positioning for weighing.
		Platform is rocking excessively or touches its base at any corner as a result of a worn or broken “V” bearing or a broken pivot.	Check for worn or broken “V” bearings or a broken pivot.	Replace platform assembly and beam scale assembly (are a factory matched unit). Refer to para 4.2 and 4.5.
		Steel connecting rod which connects beam scale and weight platform is rubbing against inside of scale pillar.	Check to see if all wire hooks of steel connecting rod face toward the right side of the table.	Position all wire hooks so they face the right side of table. Refer to para 4.2.
		Beam scale is out of calibration.	Check accuracy of scale with the calibrated test weight.	Check the calibration of the beam scale using the calibrated test weight. Refer to para 4.4. If scale is out of calibration, replace platform assembly and beam scale assembly (are a factory matched unit). Refer to para 4.2 and 4.5.
	Beam pointer does not move at all during weighing.	Connection rod is incorrectly connected or has become disconnected from linkage rods.	Check connection rod connections.	Connect disconnected connection rod. Make sure all other linkage is correctly positioned and connected to connection rod.
Linear scale seems to be inaccurate.	Arm of linear scale is not perpendicular to upholstered top when extended or height measurements seem inaccurate.	Scale label is not positioned properly.	Use tape measure to check if scale label is positioned properly.	Reposition scale label or if necessary, replace with new scale label.
		Linear scale is out of alignment (not square with back of table top).	Use a carpenter square to check squareness of linear scale with respect to the back of table top.	Align linear scale. Refer to para 4.6.

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2.4 Troubleshooting Procedures (Applies to 409-006 and 409-007)

Table 2-2 is a Troubleshooting Guide which is used to determine the cause of the malfunction. This guide covers problems with scale platform components and digital display which the model 409-006 has. The model 409-007 does not have a scale platform or digital display; it only has a linear scale. For this model, only use the portion of the guide which is applicable.

Table 2-2. Troubleshooting Guide (Models 409-006 & 409-007)

Problem	Symptom	Probable Cause	Check	Correction
Digital Scale is malfunctioning.	Nothing is displayed on digital display when **ON / ZERO** switch is pressed.	AC adapter is malfunctioning or disconnected (applies only if AC adapter is being used instead of batteries).	Check the connection of the AC adapter jack to the AC jack port and the connection of AC adaptor plug to the wall outlet.	Correct bad connection. If necessary, replace AC adapter (Call TANITA Corporation @847-640-9241 to order parts /accessories).
		Batteries are too weak to operate digital scale (applies only if batteries are being used instead of AC adapter).	Replace suspect batteries with known working batteries or use an AC adapter.	Replace six used batteries with six new LR6 Alkali batteries (“AA” Batteries).
		Display board assembly is malfunctioning.	Replace suspect display board assembly with known working display board assembly.	Replace display board assembly (Call TANITA Corporation @847-640-9241 to order parts /accessories).
	Digital display acts erratically.	The mode setting for the digital display has been lost due to a power surge or replacement of display board assembly.	Check mode setting for unit.	Adjust mode setting for digital scale to code:H8830. This is the type of scale used on this table. Refer to para 4.14.
	Digital display works, but measured weight stays at zero even with weight on table top.	Display connector (connects to underside of digital display) is loose or disconnected from digital display.	Check if display connector is loose or disconnected.	Make sure display connector is properly connected to digital display.
		Wiring / connector between display board assembly and platform scale load cell is disconnected or torn.	Check for disconnected, torn, or damaged connector / wiring.	Connect loose connector or replace any torn or damaged connector / wiring. (Call TANITA Corporation @847-640-9241 to order parts /accessories.) Refer to para 4.8.
		Platform scale load cell assembly is malfunctioning.	Replace suspect platform scale load cell with known working platform scale load cell.	Replace platform scale load cell. Refer to para 4.9. (Call TANITA Corporation @847-640-9241 to order parts / accessories.)
	The measured weight of the patient is inaccurate.	Paper roll is interfering with table top.	Check to see if paper roll is in contact with bottom of table top.	Reduce thickness of paper roll or remove paper roll.
		Table is not level.	Check to see if table top is level.	Adjust four leveling screws, located on base of table, to level table.
		Table is located where excessive vibration occurs.	Check for signs of excessive vibration at table location.	Accurate measurement may be impossible if the product is used where there is excessive vibration. Try using the table at another location.

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Table 2-2. Troubleshooting Guide (Models 409-006 & 409-007) - Continued

Problem	Symptom	Probable Cause	Check	Correction
		Digital scale is out of calibration.	Check accuracy of digital scale with a calibrated 50 lb (22.7 kg) test weight. The allowable tolerance is ± 5.25 oz. (150 g).	Check the calibration of the digital scale using the calibrated test weight. If digital scale is out of calibration, calibrate digital scale. Refer to para 4.12.
		Display board assembly is malfunctioning.	Replace suspect display board assembly with known working display board assembly.	Replace display board assembly. Refer to para 4.11. (Call TANITA Corporation @847-640-9241 to order parts / accessories.)
		Wiring / connector between display board assembly and platform scale regulator is disconnected or torn.	Check for disconnected, torn, or damaged connector / wiring.	Connect loose connector or replace any torn or damaged connector / wiring. (Call TANITA Corporation @847-640-9241 to order parts /accessories.) Refer to para 4.8.
		Platform scale load cell assembly is malfunctioning.	Replace suspect platform scale load cell with known working platform scale load cell.	Replace platform scale load cell. Refer to para 4.9. (Call TANITA Corporation @847-640-9241 to order parts / accessories.)
Linear scale seems to be inaccurate.	Arm of linear scale is not perpendicular to upholstered top when extended or height measurements seem inaccurate.	Scale label is not positioned properly.	Use tape measure to check if scale label is positioned properly.	Reposition scale label or if necessary, replace with new scale label.
		Linear scale is out of alignment (not square with back of table top).	Use a carpenter square to check squareness of linear scale with respect to the back of table top.	Align linear scale. Refer to para 4.6.

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SECTION III
SCHEDULED MAINTENANCE

3.1 Scheduled Maintenance (Models 409-004 and 409-005)

Table 3-1 is a Scheduled Maintenance Chart which lists the inspections and services that should be performed periodically on the 409-004 & 409-005) Pediatric Examination Table. These inspections and services should be performed as often as indicated in the chart.

This guide covers inspections on tables with platform components, beam scale components, and linear scale components which the model 409-004 has. The model 409-005 does not have a platform or beam scale; it has only a linear scale. For this model, only use the portion of the guide which is applicable.

Table 3-1. Scheduled Maintenance

Interval	Inspection or Service	What to Do
Semi-annually	Obvious damage	Visually check condition of table for obvious damage such as: cracks in components, missing components, dents in components, or any other visible damage which would cause the table to be unsafe to operate or would compromise its performance. Repair table as necessary.
	Fasteners / hardware	Check table for missing or loose fasteners / hardware. Replace any missing hardware and tighten any loose hardware as necessary.
	Warning and instructional decals	Check for missing or illegible decals. Replace decals as necessary.
	Pivot points / moving parts / accessories	Lubricate all exposed pivot points, moving parts, and accessories with silicone based lubricant. Refer to para 4.5 for access.
	Table top locking mechanism	Check that table top is stationary when table top locking handle is in the LOCK position. Check that table top floats freely on scale platform when table top locking mechanism is in UNLOCK position. If not, replace any bent, broken, or missing components on table top locking mechanism. If necessary, replace platform assembly and beam scale assembly (are a factory matched unit). Refer to para 4.2 and 4.5.
	Beam scale zero balance	Zero the large and small poise weights; the beam pointer should center in the trig square indicating scale is zeroed. If not, perform a zero balance adjustment. Refer to para 4.3.
	Beam scale accuracy	Check to see if beam scale reading matches the calibrated test weight placed on table top (within specified tolerance). Refer to para 4.4. If not, replace platform assembly and beam scale assembly (are a factory matched unit). Refer to para 4.2 and 4.5.
	Linear scale	Use carpenter square to ensure linear scale is square with back of table top when fully extended. If not, align linear scale. Refer to para 4.6. Use tape measure to make sure linear scale label is positioned correctly, indicating the correct patient measurement.
	Levelness of table	Check to see if table is level. If not, level table by adjusting leveling screws; there is one located at each corner of table.
	Upholstery	Check upholstered table top for rips, tears, or excessive wear. Replace table top if necessary.
	Operational Test	Perform an Operational Test to determine if the table is operating within its specifications. Refer to para 2.1. Replace or adjust any malfunctioning components.

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SECTION III
SCHEDULED MAINTENANCE

3.2 Scheduled Maintenance (Models 409-006 and 409-007)

Table 3-2 is a Scheduled Maintenance Chart which lists the inspections and services that should be performed periodically on the 409-006 & 409-007) Pediatric Examination Table. These inspections and services should be performed as often as indicated in the chart.

This guide covers inspections on tables with platform components, digital display, and linear scale components which the model 409-006 has. The model 409-007 does not have a platform or digital display; it has only a linear scale. For this model, only use the portion of the guide which is applicable.

Table 3-2. Scheduled Maintenance

Interval	Inspection or Service	What to Do
Semi-annually	Obvious damage	Visually check condition of table for obvious damage such as: cracks in components, missing components, dents in components, or any other visible damage which would cause the table to be unsafe to operate or would compromise its performance. Repair table as necessary.
	Fasteners / hardware	Check table for missing or loose fasteners / hardware. Replace any missing hardware and tighten any loose hardware as necessary.
	Warning and instructional decals	Check for missing or illegible decals. Replace decals as necessary.
	Pivot points / moving parts / accessories	Lubricate all exposed pivot points, moving parts, and accessories with silicone based lubricant.
	Digital Display	Check accuracy of scale using a 50 lb (22.7 kg) test weight. The allowable tolerance is ± 5.25 oz. (150 g). If necessary, calibrate digital scale (Refer to para 4.12). Check all LCD segments to ensure they are illuminating. If necessary, replace display board (Refer to para 4.11).
	Linear scale	Use carpenter square to ensure linear scale is square with back of table top when fully extended. If not, align linear scale. Refer to para 4.6. Use tape measure to make sure linear scale label is positioned correctly, indicating the correct patient measurement.
	Levelness of table	Check to see if table is level. If not, level table by adjusting leveling screws; there is one located at each corner of table.
	Upholstery	Check upholstered table top for rips, tears, or excessive wear. Replace table top if necessary.
	Operational Test	Perform an Operational Test to determine if the table is operating within its specifications. Refer to para 2.2. Replace or adjust any malfunctioning components.
Annually	Digital scale calibration	Perform a digital scale calibration and then a gravity compensation procedure. Refer to para 4.12 and 4.13.

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SECTION IV
MAINTENANCE / SERVICE INSTRUCTIONS

4.1 Introduction

WARNING
Refer to the Operator Manual for complete instructions on operating the table. Failure to do so could result in personal injury.

NOTE
Perform an operational test on the table after the repair is completed to confirm the repair was properly made and that all malfunctions were repaired.

Also, this guide covers procedures on platform components, beam scale components, and linear scale components which the model 409-004 has. The model 409-005 does not have a platform or beam scale; it only has a linear scale. For this model, only use the procedures which are applicable.

The following paragraphs contain removal, installation, repair, and adjustment procedures for the table.

4.2 Beam Scale Components Removal / Installation (Mechanical Scale Only)

A. Removal

EQUIPMENT ALERT
The serial number labels on both the pillar assembly (4, Figure 4-1) and platform base (12, Figure 4-5) must match each other; they are a factory matched pair. If serial numbers ***do not match, do not*** proceed with beam scale installation, stop and call Midmark Technical Service at 1-800-MIDMARK.

(1) Remove two screws (1, Figure 4-1), front cap (2), and back cap (3) from pillar assembly (4).

(2) Disconnect wire loop (A) from beam scale (5).

(3) Remove beam scale (5) from pillar assembly (4).

(4) Disconnect wire loops (B and C) and remove connection rod (6).

(5) Disconnect lever assembly (7) from wire loop (D) and remove lever assembly.

(6) Remove four locknuts (8) and pillar assembly (4) from base assembly (9).

B. Installation

(1) Install pillar assembly (4) on base assembly (9) and secure with four locknuts (8).

EQUIPMENT ALERT
The open ends of all wire loops must face the operator's right side of the table after being installed. Failure to do so will result in inaccurate readings.

(2) Position lever assembly (7) inside pillar assembly (4); then connect lever assembly to wire loop (D).

(3) Connect wire loop (B) of connection rod (6) to lever assembly (7); then connect wire loop (C) of connection rod (6) to calibrating arm (10).

(4) Install beam scale (5) on pillar assembly (4).

NOTE
Pull upward gently on wire loop (A) to create slack so wire loop can be connected to beam scale.

(5) Connect wire loop (A) of lever assembly (7) to beam scale (5).

(6) Install back cap (3) and front cap (2) over beam scale (5) and secure with two screws (1).

(7) Perform zero balance adjustment (Refer to para 4.3).

(8) Check beam scale calibration (Refer to para 4.4).

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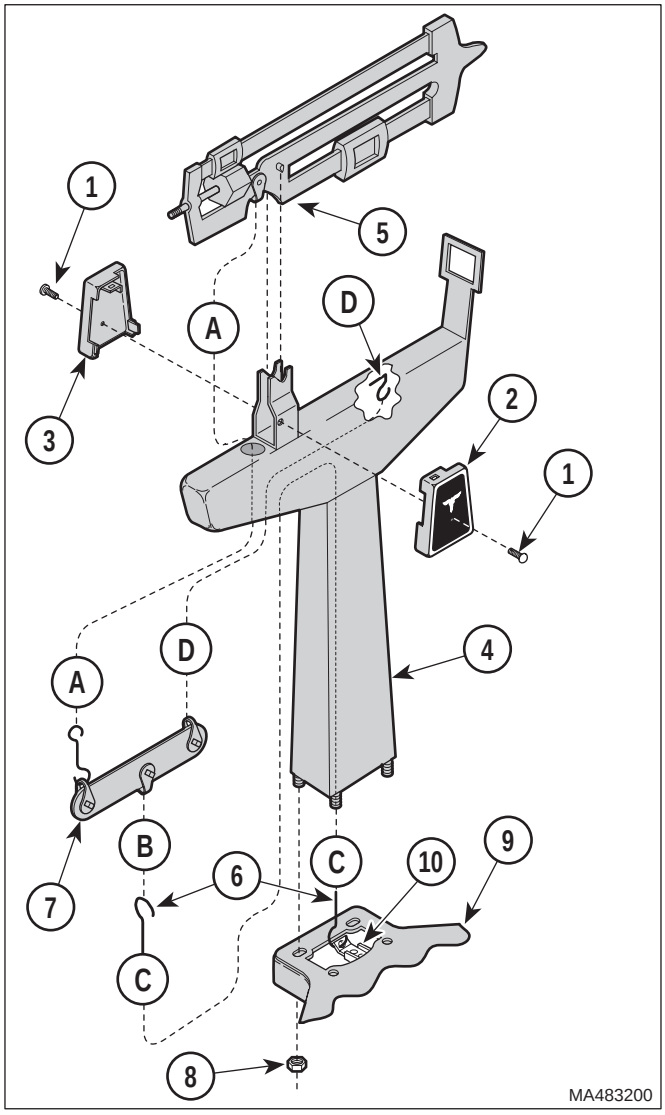

Figure 4-1. Beam Scale Components Removal / Installation

4.3 Zero Balance Adjustment (Mechanical Scale Only)

A. Adjustment

(1) Move the table top locking handle (1, Figure 4-2) to UNLOCK position.

(2) Push down on center of table top (Point A) a few times to align and exercise all internal parts.

(3) Remove any items from upholstered table top (2).

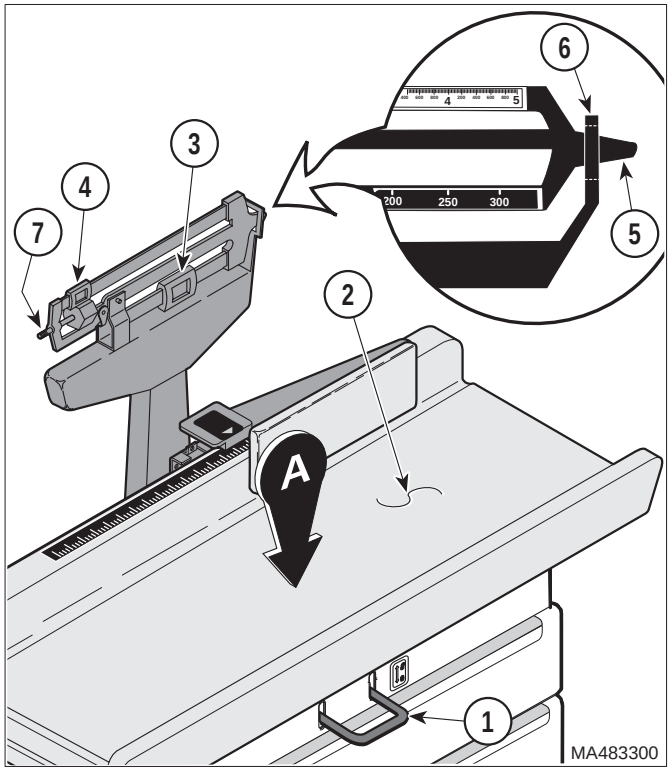

Figure 4-2. Zero Balance Adjustment

(4) Set large poise weight (3) to zero setting, making sure it is seated in notch and set small poise weight (4) to zero setting by making sure small poise weight is pushed firmly against shoulder of beam (all the way to left).

(5) Observe. The beam pointer (5) should center in trig square (6), indicating the beam scale is zeroed.

(6) If the beam pointer (5) centers, no adjustment is necessary. If the beam pointer does not center, go to step 7.

NOTE
If beam pointer touches bottom of trig square or stabilizes below the centerline of trig square, turn zero adjustment screw in a clockwise direction. If beam pointer touches top of trig square or stabilizes above the centerline of trig square, turn zero adjustment screw in a counterclockwise direction.

(7) Turn zero adjustment screw (7) in or out until beam pointer (5) centers in trig square (6).

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4.4 Beam Scale Calibration Check (Mechanical Scale Only)

A. Calibration Check

CAUTION
This procedure only ***checks*** to make sure the beam scale is still calibrated within tolerance. The beam scale cannot be calibrated in the field. If the beam scale does not pass the calibration check (after performing a zero balance adjustment), the scale platform and beam scale components must be replaced; the scale platform and beam scale components are factory calibrated and are shipped as a matched pair.

(1) Move table top locking handle (1, Figure 4-3) to UNLOCK position.

(2) Remove any items from upholstered table top (2).

(3) Push down on center of upholstered table top (A) a few times to align and exercise all internal parts.

(4) Perform zero balance adjustment (Refer to para 4.3).

EQUIPMENT ALERT
Use calibrated test weight provided; a label indicating the calibrated weight is on test weight. Failure to use calibrated test weight could result in a faulty calibration check reading.

(5) Remove calibrated test weight (3) from its storage hook, located on right rear of table. Place calibrated test weight on center of upholstered table top (A).

(6) Using large poise weight (4) and small poise weight (5), set beam scale to weight indicated on calibrated test weight.

(7) Observe. The beam pointer (6) should center in trig square (7), indicating beam scale is within tolerance.

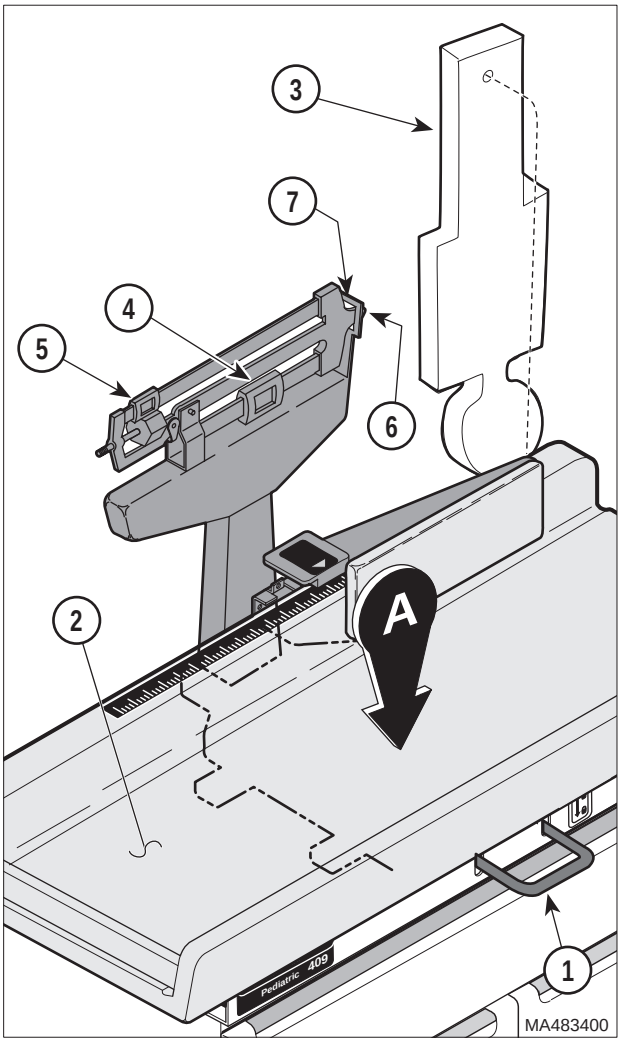

Figure 4-3. Scale Calibration

(8) If beam pointer (6) centers, beam scale is properly calibrated. If beam pointer does not center, adjust small poise weight (5) and / or large poise weight (4) as necessary to center beam pointer (6) in trig square (7).

CAUTION
The beam scale cannot be calibrated in the field. If the beam scale does not pass the calibration check (after performing a zero balance adjustment), the scale platform and beam scale components must be replaced; the scale platform and beam scale components are factory calibrated and are shipped as a matched pair.

NOTE
The allowable difference listed below is based on a test weight of 18 lbs (8.2 kgs) or less.

(9) Determine how much beam scale reading differs from weight of calibrated test weight. The allowable difference is ±1 oz. (±28.3 g); if the difference is more than ±1 oz. (±28.3 g), the scale platform and beam scale components must be replaced (Refer to para 4.2 and 4.5).

(10) Hang calibrated test weight (3) on its storage hook, located on right rear of table.

4.5 Platform Components Removal / Installation or Table Top Locking Mechanism Access (Mechanical Scale Only)

A. Removal

EQUIPMENT ALERT
The serial number labels on both the pillar assembly (4, Figure 4-1) and platform base (12, Figure 4-5) must match each other; they are a factory matched pair. If serial numbers ***do not match, do not*** proceed with beam scale installation, stop and call Midmark Technical Service at 1-800-MIDMARK.

(1) Pull drawer (1, Figure 4-4) out until resistance is felt. Then, on both sides of drawer, pull sides of drawers outward until locking slots (A) of drawer are free of tabs (B) on door glides (2). Remove drawer (1) from table.

(2) Remove four screws (1, Figure 4-5), lockwashers (2), washers (3), and upholstered table top (4) from base (5).

(3) Lift up slightly on calibrating arm (6) and then disconnect wire hook (7) from calibrating arm.

(4) Remove four nuts (8) and beam scale assembly (9) from platform (10).

(5) Remove four screws (11), lockwashers (12), and platform (10) from upholstered table top (4).

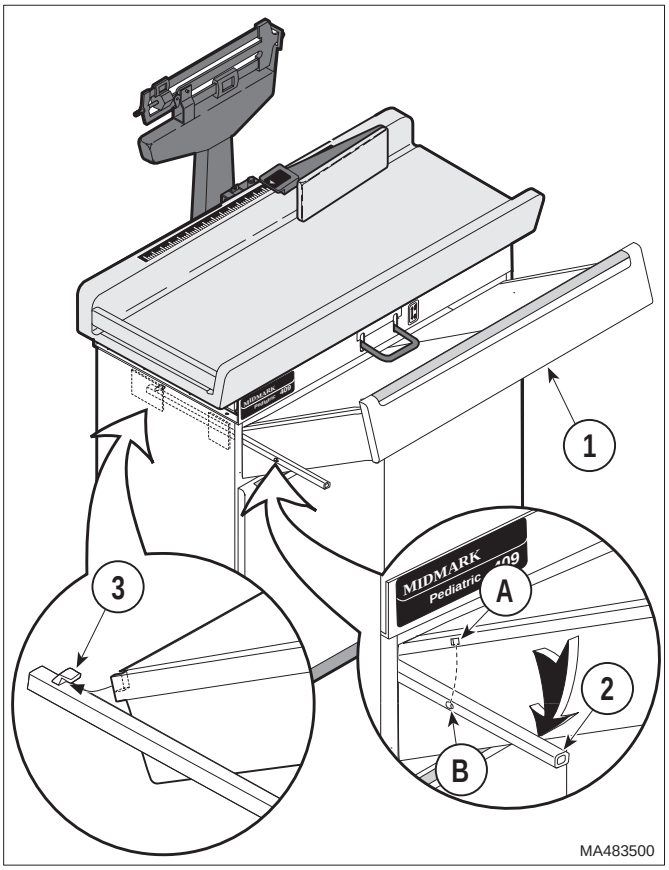

Figure 4-4. Drawer Removal / Installation

B. Installation

(1) Install platform (10, Figure 4-5) on upholstered table top (4) and secure with four lockwashers (12) and screws (11).

NOTE
If installing a new beam scale, skip steps 2 and 3. Then, after step 5, install the new beam scale components (Refer to para 4.2).

(2) Install beam scale assembly (9) on platform (10) and secure with four nuts (8),

(3) Lift up slightly on calibrating arm (6) and then connect wire hook (7) to calibrating arm.

(4) Install upholstered table top (4) on base (5) and secure with four washers (3), lockwashers (2), and screws (1).

(5) Install drawer (1, Figure 4-4) by positioning drawer on drawer glides (2), making sure rear of drawer is contained by two hooks (3); then

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pull sides of drawers outward and install locking slots (A) of drawers on tabs (B).

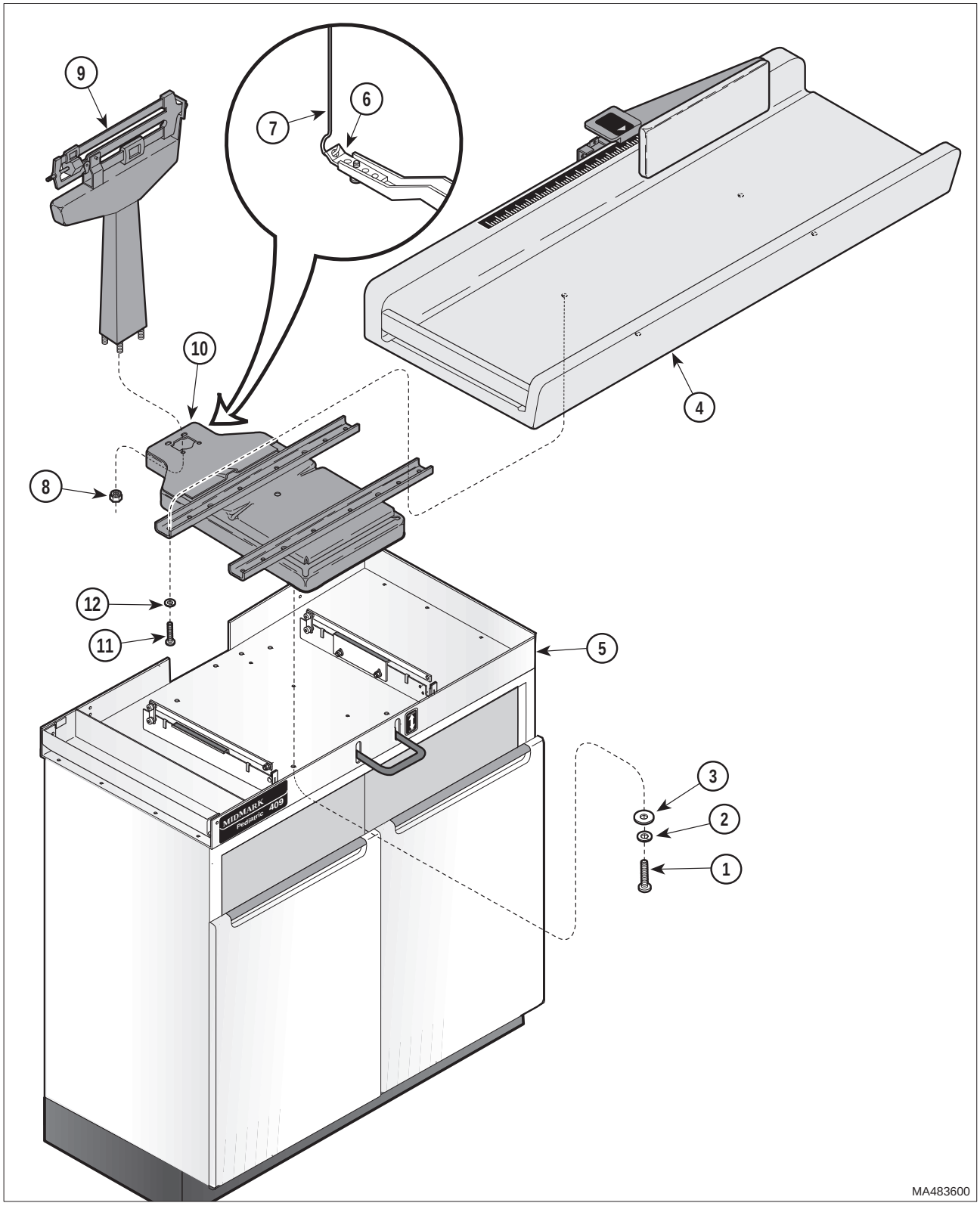

Figure 4-5. Platform Components Removal / Installation

4.6 Linear Scale Alignment (All Models)

A. Alignment

(1) Open measuring arm of linear scale (1, Figure 4-6) to its fully extended position as shown in illustration.

(2) Using a carpenter square (A), check to see if the measuring arm of linear scale (1) is square with back of upholstered table top (2) when linear scale is fully extended.

(3) If measuring arm of linear scale (1) is not square, use a 3/32 in. Allen wrench to adjust setscrew (3) until linear scale is square with back of upholstered table top (2).

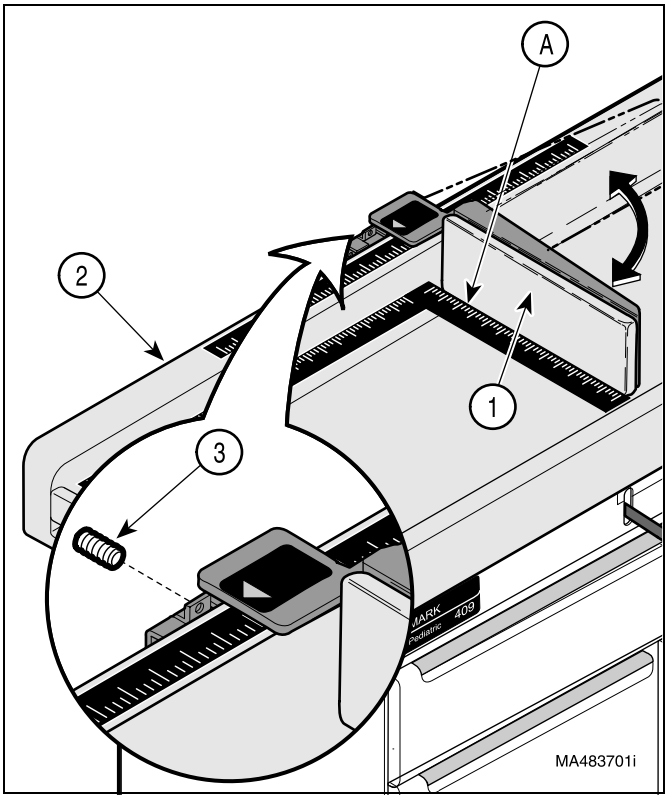

Figure 4-6. Linear Scale Alignment

4.7 Digital Display Removal / Installation (Digital Scale Only)

A. Removal

(1) Disconnect display connector (1, Figure 4-7) from digital display (2).

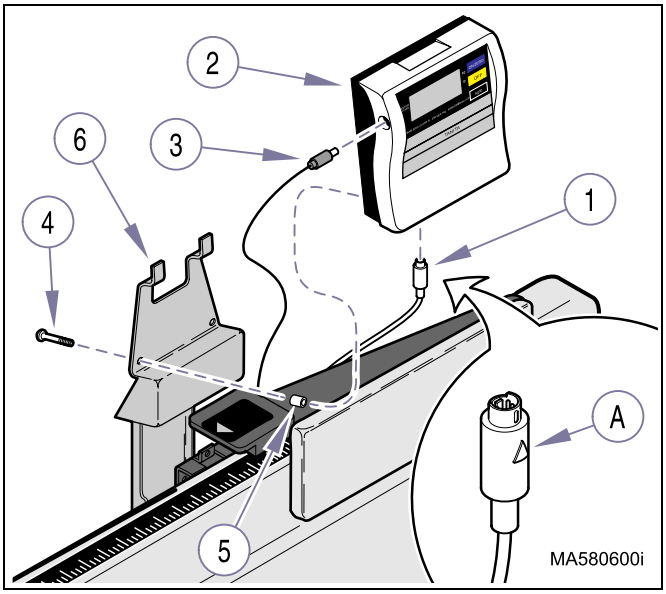

Figure 4-7. Digital Display Removal / Installation

(2) If using AC adapter, disconnect AC adapter jack (3) from digital display (2).

(3) Remove two screws (4), spacers (5), and digital display (2) from scale readout holder (6).

B. Installation

(1) Install digital display (2) on scale readout holder (6) and secure with two spacers (5) and screws (4).

EQUIPMENT ALERT
Use locator arrow to ensure display connector is installed in correct orientation. Also, do not use excessive force to connect. Failure to do so could result in damage to display connector or digital display.

(2) Connect display connector (1) to digital display (2), making sure locator arrow (A) is facing front side of digital display.

(3) Perform digital scale calibration (Refer to para 4.12).

(4) Perform digital scale gravitational compensation adjustment (Refer to para 4.13).

4.8 Platform Scale Components / Load Cell Assembly Access (Digital Scale Only)

A. Removal

(1) Disconnect display connector (1, Figure 4-8) from digital display (2); then remove cord of display connector from cable clamp (3).

(2) If using AC adapter, disconnect AC adapter jack (4) from digital display (2).

(3) Remove drawer (5) from table as follows: pull drawer out until it meets resistance. Then, on both sides of drawer (5), bend sides of drawer outward until locking slots (6) of drawer are free of tabs (7) on drawer slides.

(4) Remove four nuts (8) and pediatric top assembly (9) from upper wrap (10).

B. Installation

(1) Position pediatric top assembly (9, Figure 4-8) on upper wrap (10) and secure with four nuts (8).

(2) Install drawer (5) in table as follows: position drawer on drawer slides. Then, slide back of drawer (5) into rear hooks (A) on each slide and then snap drawer side slots (6) over slide locking tabs (7).

(3) If using AC adapter, connect AC adapter jack (4) to digital display (2).

EQUIPMENT ALERT
Use locator arrow to ensure display connector is installed in correct orientation. Also, do not use excessive force to connect. Failure to do so could result in damage to display connector or digital display.

(4) Connect display connector (1) to digital display (2), making sure locator arrow (A) is facing front side of digital display; then secure cord of display connector in cable clamp (3).

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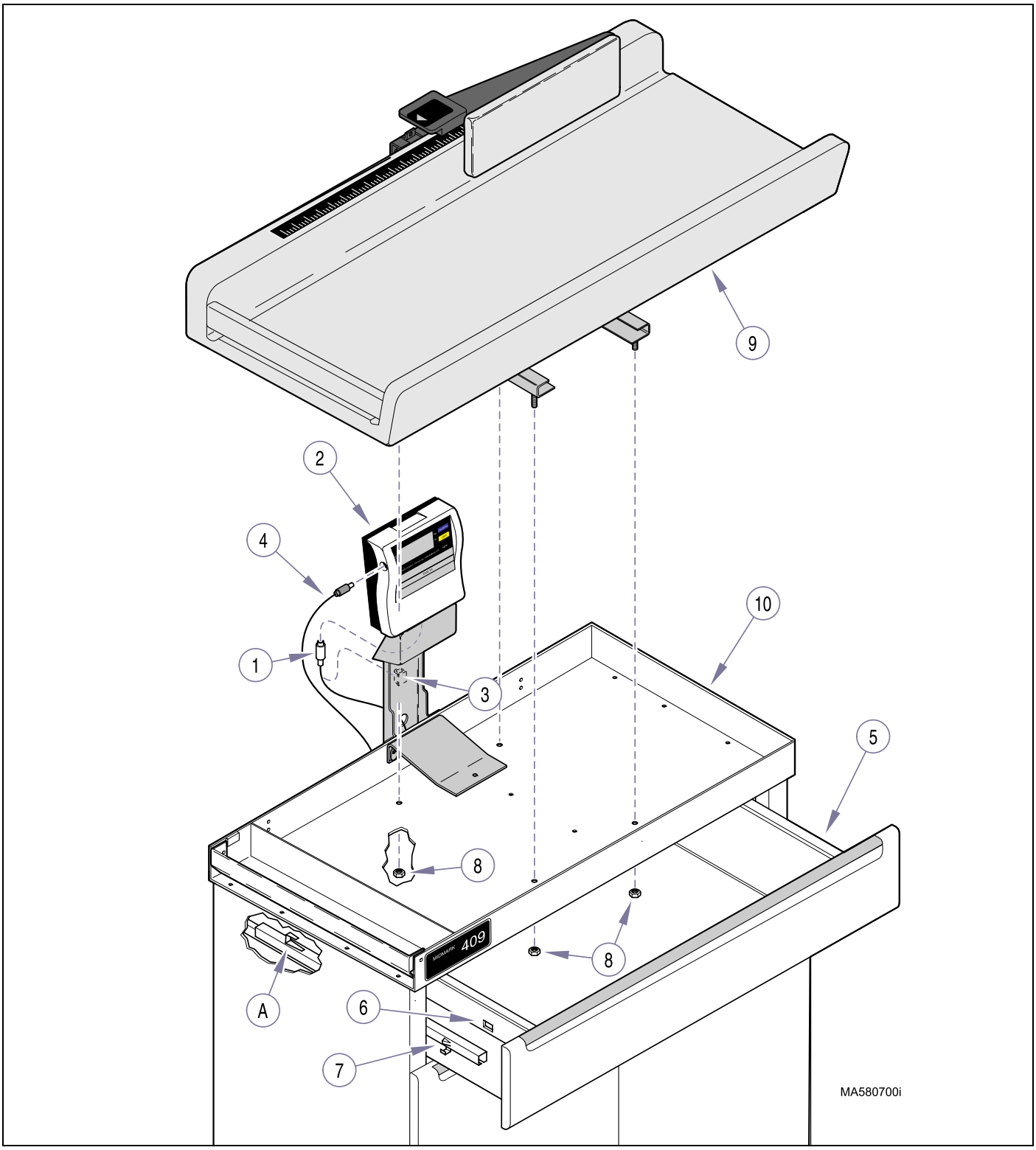

Figure 4-8. Platform Scale Components / Load Cell Assembly Access

4.9 Platform Load Cell Removal / Installation (Digital Scale Only)

A. Removal

(1) Access platform scale components (Refer to para 4.8).

(2) Disconnect display harness (1, Figure 4-9) from load cell harness (2).

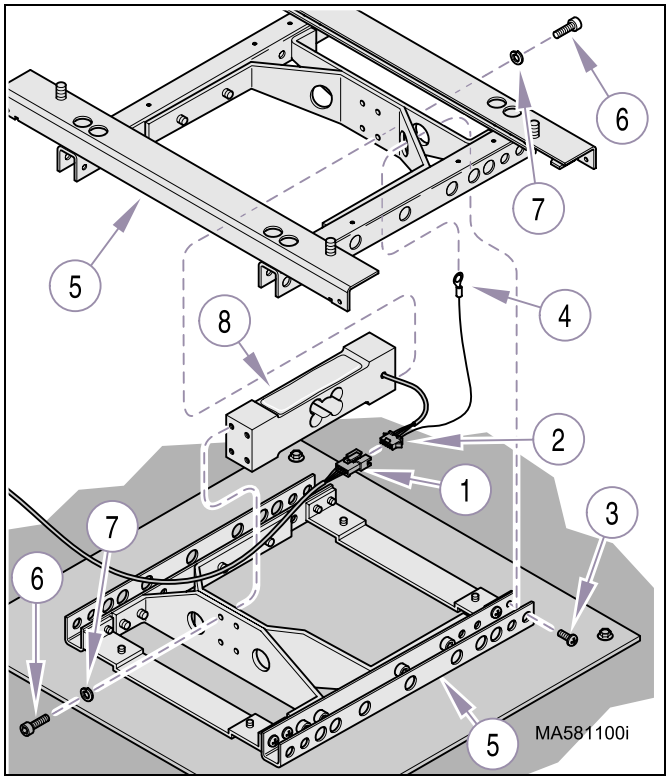

Figure 4-9. Platform Load Cell Removal / Installation

(3) Remove screw (3) and disconnect ground wire (4) from platform (5).

(4) Remove eight screws (6), lockwashers (7), and load cell (8) from platform components (5).

B. Installation

(1) Install load cell (8) on platform components (5) and secure with eight lockwashers (7) and screws (6).

(2) Connect ground wire (4) to platform (5) with one screw (3).

(3) Connect display harness (1) to load cell harness (2).

(4) Install upholstered table top (Refer to para 4.8).

(5) Perform digital scale calibration (Refer to para 4.12).

(6) Perform digital scale gravitational compensation adjustment (Refer to para 4.13).

4.10 Platform Assembly Removal / Installation (Digital Scale Only)

A. Removal

(1) Access platform scale components (Refer to para 4.8).

(2) Disconnect display harness (1, Figure 4-10) from load cell harness (2).

(3) Remove one screw (3) and cable clamp (4) from scale mount weldment (5). Remove cable clamp from display harness (1).

(4) Remove four locknuts (6), screws (7), and two scale mount weldments (5) from Tanita scale platform (8).

(5) Remove four screws (9) and top scale mount (10) from pediatric top assembly (11).

(6) Remove four nuts (12), screws (13), and top scale mount (10) from Tanita scale platform (8).

B. Installation

(1) Install top scale mount (10) on Tanita scale platform (8) and secure with four screws (13) and nuts (12).

(2) Install top scale mount (10) on pediatric top assembly (11) and secure with four screws (9).

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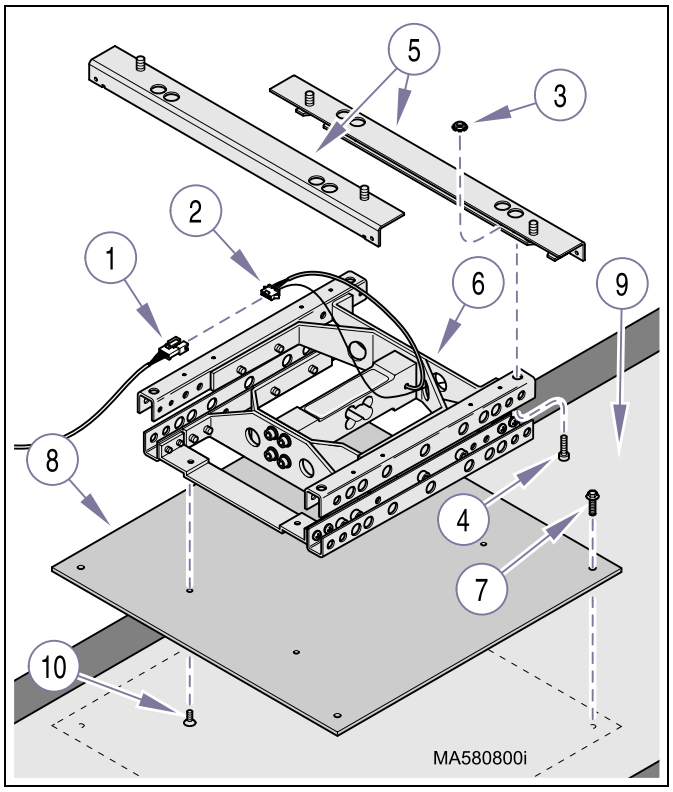

Figure 4-10. Platform Assembly Removal / Installa-

(3) Install two scale mount weldments (5) on Tanita scale platform (8) and secure with four screws (7) and four locknuts (6).

(4) Connect load cell harness (2) to display harness (1).

(5) Wrap cable clamp (4) around display harness (1); then install cable clamp (4) on platform (5) with one screw (3).

(6) Install upholstered table top (Refer to para 4.8).

(7) If load cell was replaced, perform digital scale calibration (Refer to para 4.12).

(8) If calibration is performed, perform digital scale gravitational compensation adjustment (Refer to para 4.13).

4.11 Display Board Assembly Removal / Installation (Digital Scale Only)

A. Removal

(1) Remove digital display from table (Refer to para 4.7).

(2) Unscrew thumbscrew (1, Figure 4-11) and pull battery box (2) from upper housing (3).

(3) Pry upper two rubber pads (4) from lower housing (5).

(4) Remove two screws (6) and lower housing (5) from upper housing (3).

(5) Remove two screws (7) and cable port harness (8) from battery box cover (9).

(6) Remove one screw (10) and battery box cover (9) from upper housing (5).

(7) Tag and desolder two wires (11) from terminals of display board assembly (12).

(8) Remove four screws (13) and display board assembly (12) from upper housing (5).

(9) Disconnect cable port harness (8) from display board assembly (12).

B. Installation

(1) Connect cable port harness (8) to display board assembly (12).

(2) Install display board assembly (12) on upper housing (5) and secure with four screws (13).

EQUIPMENT ALERT
Red wire must be soldered to terminal TP1+ of display board assembly and black wire to terminal TP2- of display board assembly. Failure to do so could result in damage to display board assembly.

(3) Solder two wires (11) to terminals of display board assembly (12).

(4) Route cable port harness (8) as necessary; then install battery box cover (9) on upper housing (5) and secure with one screw (10).

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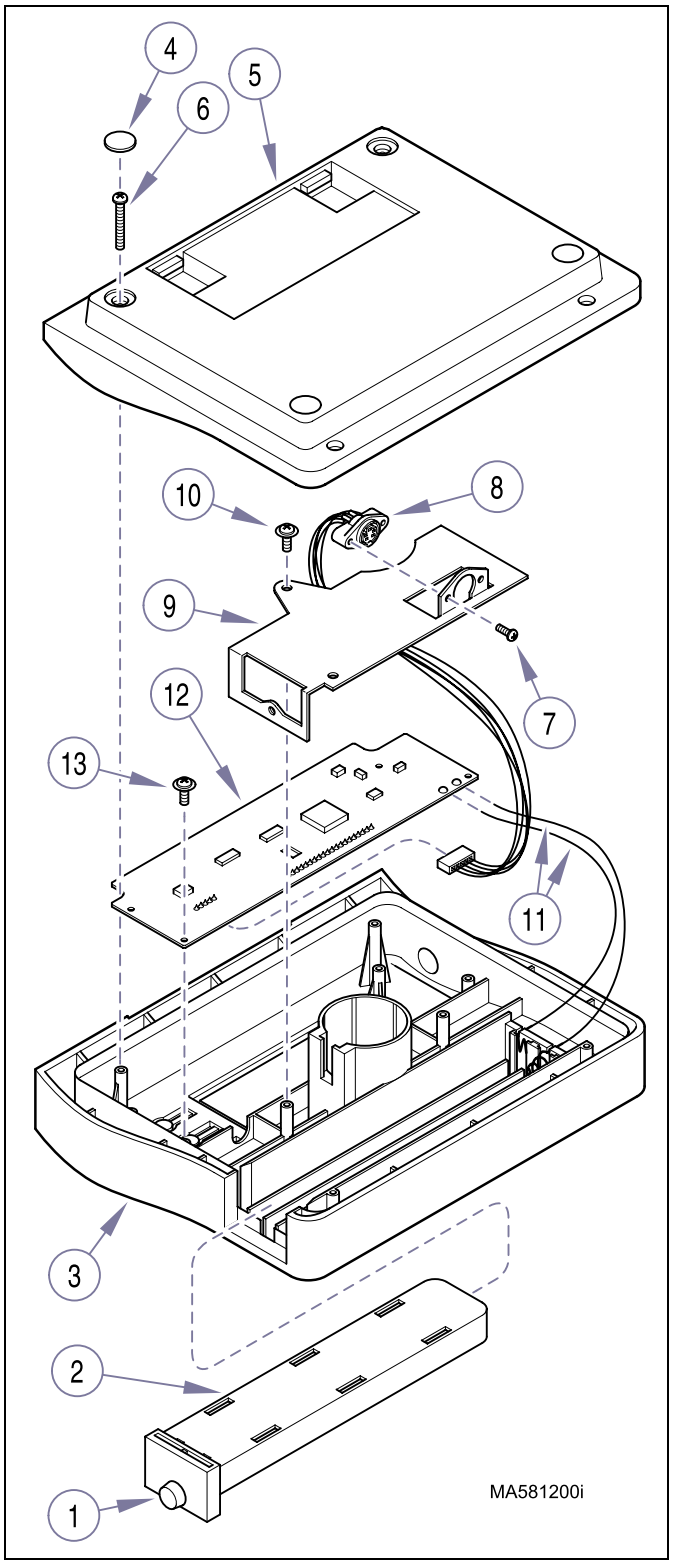

Figure 4-11. Display Board Assembly Removal / Installation

(5) Position cable port harness (8) on battery box cover (9) and secure in place with two screws (7).

(6) Install lower housing (5) on upper housing (3) and secure with two screws (6).

(7) Install two rubber pads (4) on top of two screws (6).

(8) Insert battery box (2) in upper housing (3) and secure by tightening thumbscrew (1).

(9) Install digital display on table (Refer to para 4.7).

(10) Perform digital scale calibration (Refer to para 4.12).

(11) Perform digital scale gravitational compensation adjustment (Refer to para 4.13).

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4.12 Digital Scale Calibration

This procedure must be performed . . . if the digital scale's readings appear to be inaccurate, on a yearly basis, or if a new digital display, display board assembly, or new scale platform is installed. Also, after the digital scale calibration is performed, the gravitational compensation adjustment must also be performed.

Tables with serial numbers PP1000 thru PP1142, use the calibration procedure below:

Calibration Steps	Desired Display Text
While pressing the **KG / LB** button, press the **ON / ZERO** button to turn display power ***ON***.	**88888** to **F 1**
Press and release the **ON / ZERO** button until the display changes to ***F2***.	**F 2**
Press the **KG / LB** button.	**9**
Press the **ON / ZERO** button to select either [kg] weights **9** or [lb] weights **16**.	**9 or 16**
Press the **KG / LB** button.	**0 --** to **2 --**
Gently place a 200 kg ***[if 9 was selected]*** or 440 lb weight ***[if 16 was selected]*** on the center of the pediatric table top.	**2 --**
Press the **KG / LB** button.	**F 1**
Remove the weight, then press the **OFF** button to turn display ***OFF***.	

Tables with serial numbers PP1143 thru present, use the calibration procedure below:

Calibration Steps	Desired Display Text
Press & hold the **KG / LB** button, then press the **ON / ZERO** button to turn display power ***ON***. Release the **KG / LB** button when **F 1** appears in display.	**88888** to **F 1**
Press the **ON / ZERO** button. The display will show **F 2.**	**F 2**
Press the **KG / LB** button. Display will show **9** *or* **16**.	**9** *or* **16**
If display shows **16**, press the **KG / LB** button. If display shows **9**, press the **ON / ZERO** button then press the **KG / LB** button. The display will show **0 - -** then advance to **2 - -**.	**0 - -** to **2 - -**
Gently place 50 lb of certified calibration weights on the center of the table top. Allow weight to stabilize for 10 seconds, then press the **KG / LB** button. The display will show **F 1**. *[Calibration is complete]*	**F 1**
Remove weights, then press the **OFF** button.	-
Press the **ON / ZERO** button, then place ≥39 lb. of certified weights on the center of the table top.	The weight displayed should exactly match the the amount of calibrated weight on the table top.

4.13 Digital Scale Gravitational Compensation Adjustment

This procedure must be performed if a digital scale calibration has been performed or if the table has been moved from the location where it was calibrated.

Gravitational Compensation Steps	Desired Display Text
While pressing the **KG / LB** button, press the **ON / ZERO** button to turn display power ***ON***.	**88888** to **F 1**
Press and release the **ON / ZERO** button until the display changes to ***F3***.	**F 3**
Press the **KG / LB** button.	**0.00**
Adjust the gravitational compensation error to 0. Press the **ON / ZERO** button to increase the displayed numerical value by 0.1% Press the **OFF** button to decrease the displayed numerical value by 0.1%	**0.0x** to **0.00** **or** **-0.0x** to **0.00**
Press the **KG / LB** button.	**F 1**
Press the **OFF** button to turn display ***OFF***.	

4.14 Display Board Assembly Mode Setting Procedure *(Digital Scale Only)*

This procedure must be performed if a new digital display or its display board assembly is replaced.

Mode Setting Procedure	Desired Display Text
While pressing the **KG / LB** button, press the **ON / ZERO** button to turn display power ***ON***.	**88888** to **F 1**
Press and release the **ON / ZERO** button until the display changes to ***F4***.	**F 4**
Press the **KG / LB** button. NOTE: The mode setting should be set to **H8830** for the Tanita display on the Midmark table. If an initial mode setting has not been completed on board yet, only **H** will display.	**H**
Press the **ON / ZERO** button to change the 1st numerical digit to an ***8***. Then, press the **OFF** button to change the 2nd numerical digit to an ***8***.	**Hxx** to **H88**
Press the **KG / LB** button.	**F 1**
Press and release the **ON / ZERO** button until the display changes to ***F5***.	**F 5**
Press the **ON / ZERO** button to change the 3rd numerical digit to a ***3***. Then, press the **OFF** button to change the 4th numerical digit to a ***0***.	**H88xx** to **H8830**
Press the **KG / LB** button.	**F 1**
Press the **OFF** button to turn display ***OFF***.	

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4.15 Auto Power Off / Continuous Use Selection Procedure *(Digital Scale Only)*

The digital display may be set for **AUTO POWER OFF** (in this mode, the digital display will automatically shut off after 30 minutes of non use) or **CONTINUOUS USE** (in this mode, the digital display will remain on continuously).

Mode Setting Procedure	Desired Display Text
While pressing the **KG / LB** button, press the **ON / ZERO** button to turn display power ***ON***.	**88888** to **F 1**
Press and release the **ON / ZERO** button until the display changes to ***F7***.	**F 7**
Press the **KG / LB** button.	**U 1** or **U 0**
Press the **ON / ZERO** button to change the far right numerical digit to a 1 or 0. **NOTE:** If digit on far right is a 0, mode is set for **AUTO POWER OFF**. If digit on far right is a 1, mode is set for **CONTINUOUS USE**.	**U 1** to **U 0** **(AUTO POWER OFF mode)** **or** **U 0** to **U 1** **(Continuous Use mode)**
Press the **KG / LB** button.	**F 1**
Press the **OFF** button to turn display ***OFF***.	

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SECTION V
SCHEMATICS AND DIAGRAMS

None are required.

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SECTION V
SCHEMATICS AND DIAGRAMS

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SECTION VI
PARTS LIST

6.1 Introduction

The illustrated parts list provides information for identifying and ordering the parts necessary to maintain the unit in peak operating condition. Refer to paragraph 1.5 for parts ordering information.

6.2 Description of Columns

The Item column of the parts list gives a component its own unique number. The same number is given to the component in the parts illustration. This allows a part number of a component to be found if the technician can visually spot the part on the illustration. The technician simply finds the component in question on the illustration and notes the item number of that component. Then, he finds that item number in the parts list. The row corresponding to the item number gives the technician the part number, a description of the component, and quantity of parts per subassembly. Also, if a part number is known, the location of that component can be determined by looking for the item number of the component on the illustration.

The Part No. column lists the MIDMARK part number for that component.

The Description column provides a physical description of the component.

The Qty. column lists the number of units of a particular component that is required for the subassembly. The letters “AR” denote “as required” when quantities of a particular component cannot be determined, such as: adhesive.

Bullets { • } in the Part No. column and the Description column show the indenture level of a component. If a component does not have a bullet, it is a main component of that illustration. If a component has a bullet, it is a subcomponent of the next component listed higher in the parts list than itself that does not have a bullet. Likewise, if a component has two bullets, it is a subcomponent of the next component listed higher in the parts list than itself that has only one bullet.

6.3 Torque Specifications and Important Assembly Notes

When specific assembly torque specifications, measurements, or procedures have been identified, by our engineering department, as required to assure proper function of the unit, those torque specifications measurements, and procedures will be noted on the parts illustrations. Adherence to these requirements is essential.

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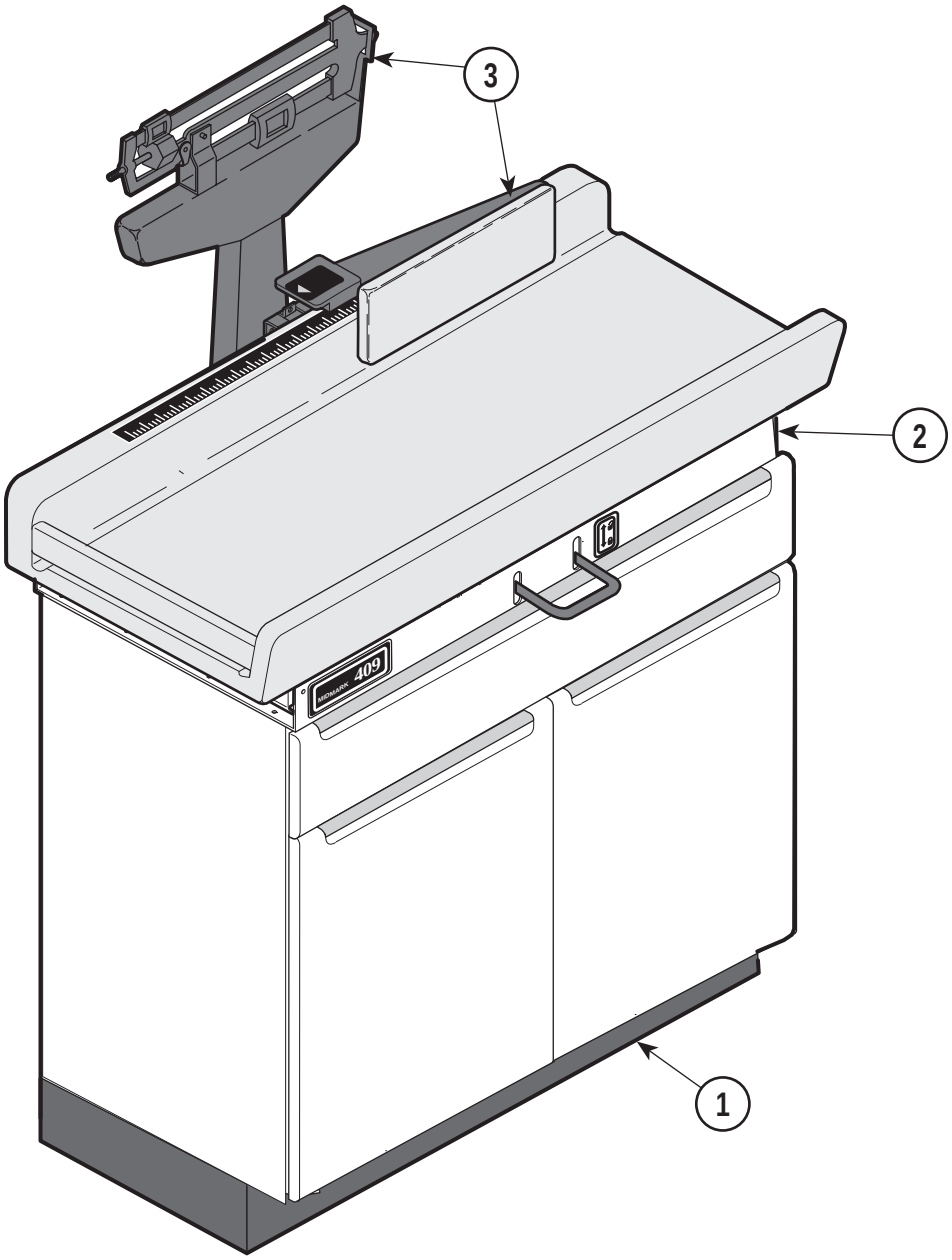
Pictorial Index - Mechanical Scale



MA411800

Item	Part No.	Description	Page
	409-004	Pediatric Examination Table (With Mechanical Scale) ***(Serial # Prefix JS)***	Ref.
	409-005	Pediatric Examination Table (W/O Mechanical Scale) ***(Serial # Prefix JS)***	Ref.
1	•	• Cabinet Assembly - Mechanical and Digital Scale	6-4
2	•	• Upper Wrap Assembly (With Mechanical Scale)	6-5
	•	• Upper Wrap Assembly (W/O Mechanical Scale)	6-6
3	•	• Table Top Assembly (With Mechanical Scale)	6-7
	•	• Table Top Assembly (Without Mechanical Scale)	6-8
4	•	• Weight Calibaton (Not Shown)	6-13
5		Key and Lock Assembly (Optional [Not Shown])	6-14

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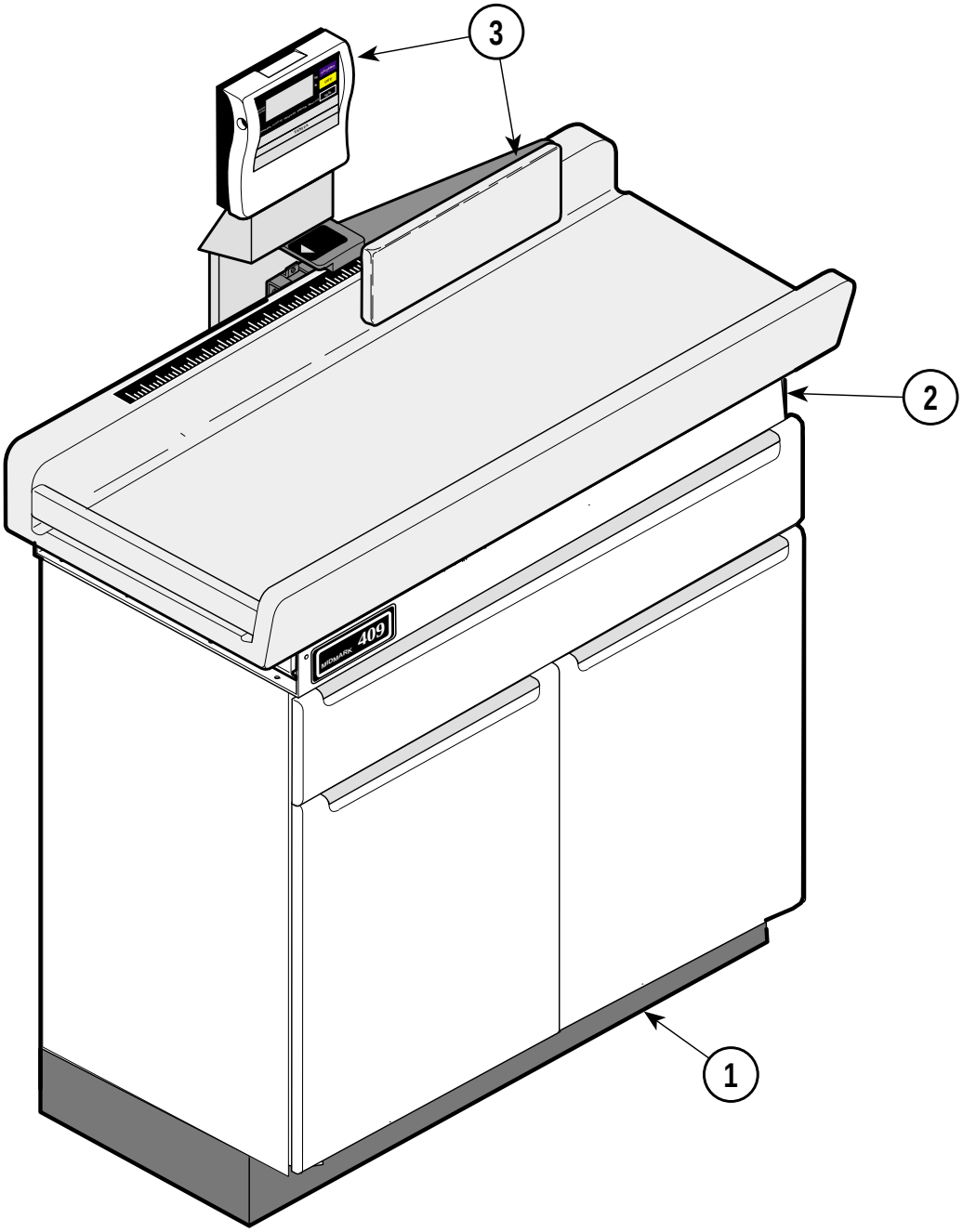
Pictorial Index - Digital Scale



MA578900

Item	Part No.	Description	Page
	409-006-***-*	Pediatric Examination Table (With Digital Scale)***(Serial # Prefix PP)***	Ref.
	409-007-***-*	Pediatric Examination Table (W/O Digital Scale) ***(Serial # Prefix PP)***	Ref.
1	•	• Cabinet Assembly	6-4
2	•	• Upper Wrap Assembly (With or W/Out Digital Scale)	6-9
3	•	• Table Top Assembly (w/ Digital Scale)	6-10
3	•	• Table Top Assembly (w/ Digital Scale)	6-10
	•	• Table Top Assembly (w/o Digital Scale)	6-11
4		Key and Lock Assembly (Optional [Not Shown])	6-14

Attnetion:
- *after model number denotes upholstery & panel color*

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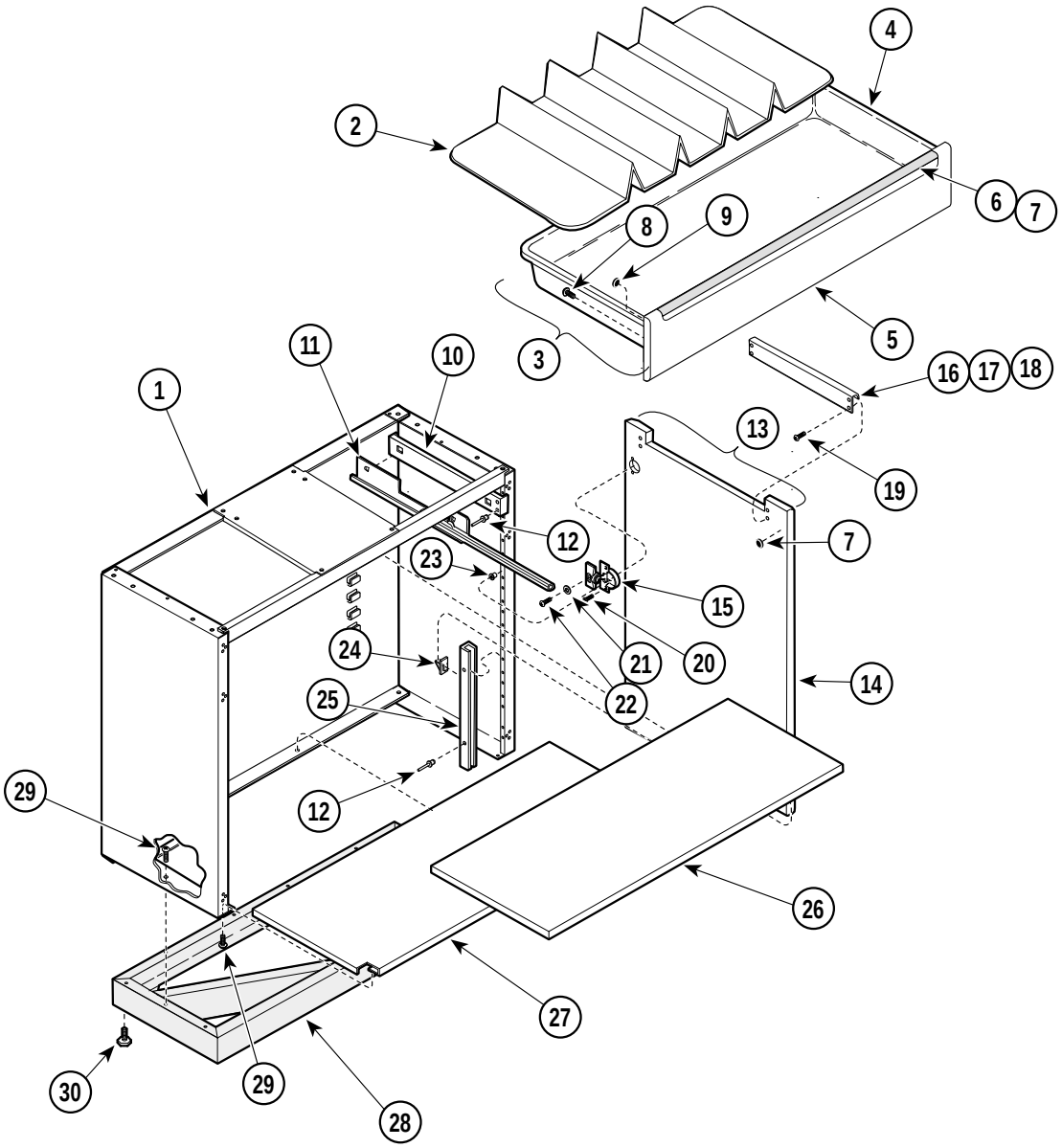
Cabinet Assembly



DRAWER INSERT COLOR CODES
[replace -xx]

-01	Blush
-02	Ch. Brown
-03	Col. Blue
-04	Pearl Grey
-05	Royal Burgundy
-06	Truffle
-07	Turquoise
-08	Persim.Orange
-09	Alert Red
-10	Royal Blue
-11	Grass Green
-12	Sun. Yellow
-13	White
-14	French Blue
-15	Bordeaux
-16	Shaker Green
-17	Shadow Blue
-18	Brittany Blue
-19	Sea Spray
-20	Midori
-21	Wild Rose
-22	Burgundy
-23	Larkspur Blue
-24	Victorian Teal
-25	Pomona
-26	Monoco
-27	Wedgewood
-28	Royal Carriage
-29	Monet
-30	Soft Pearl
-99	Special

MA41200

Used on Units with Serial Numbers JS1000 and PP1000 Thru Present

Item	Part No.	Description	Qty
1	029-2119-00	Shell Assembly	1
2	053-0682-00	Drawer Divider	1
3	029-1769-24	Drawer Assembly	1
4	• 053-0574-00	• Drawer	1
5	• 062-9966-49	• Panel	1
6	• •053-0627-13	• • Handle Cover	1
7	• •053-0713-xx	• • Vinyl Insert {Specify Color}	1
8	• 040-0006-63	Screw	6
9	• 053-0716-00	Bumper	2
10	050-3936-10	Slide Bracket	2
11	016-0513-01	Drawer Slide (Right Hand)	1
	016-0513-00	Drawer Slide (Left Hand)	1
12	042-0010-04	Pop Rivet	12
13	029-1781-85	Door Assembly (Right Hand)	1
	029-1781-84	Door Assembly (Left Hand)1	1
14	• 062-9966-56	• Door Panel	2
15	• 016-0510-00	• Door Hinge	4
16	• 053-0578-02	• Handle	2
17	053-0705-xx	Vinyl Insert {Specify Color}	2
18	053-0627-05	Handle Cover	2
19	040-0006-71	Screw	8
20	• 016-0510-02	• Screw	8
21	• 045-0001-08	• Lock Washer	4
22	• 040-0010-12	• Screw	4
23	042-0045-11	Nutsert	4
24	029-1761-01	Shelf Clip	2
25	050-2851-10	Shelf Bracket	2
26	050-3935-10	Pediatric Shelf	1
27	050-3960-10	Cabinet Bottom	1
28	029-2126-00	Base Assembly	1
29	040-0010-00	Screw	10
30	016-0001-00	Leveling Screw	4

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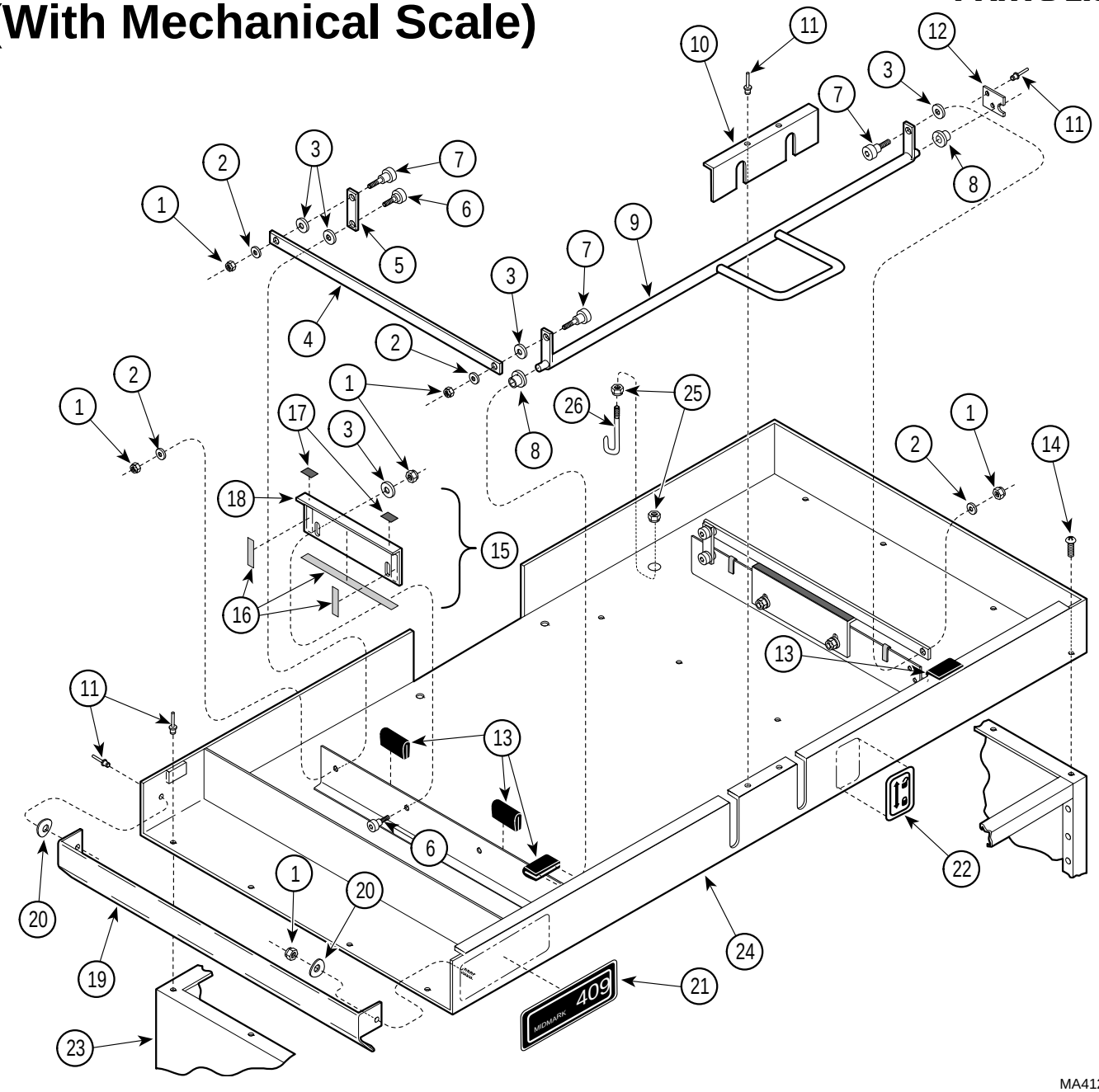
Upper Wrap (With Mechanical Scale)



MA412101

Used on Units with Serial Numbers JS1000 Thru JS1386

Item	Part No.	Description	Qty
1	041-0010-02	Nut	11
2	053-0382-00	Plastic Washer	6
3	053-0382-01	Plastic Washer	10
4	051-0630-40	Tie Bar	2
5	051-0627-40	Level Bar	2
6	040-0010-85	Shoulder Screw	6
7	042-0014-21	Shoulder Screw	4
8	053-0114-03	Nylon Bearing	2
9	030-1105-10	Handle Weldment	1
10	050-3967-10	Handle Bracket	1
11	042-0010-04	Pop Rivet	5
12	050-3940-40	Retaining Clip	1
13	053-0665-17	Edge Protector, 1.25”	6
14	040-0010-00	Screw	8

Item	Part No.	Description	Page
15	029-1269-00	Bracket Assembly (Includes Items 16-18)	1
16	• 053-0018-00	• Nylon Tape (Sold by the inch)	14
17	• 053-0716-00	• Neophrene Bumper	2
18	• 050-3961-40	• Lock Bracket	1
19	050-3942-10	Paper Roll Door	1
20	045-0001-20	Curved Washer	2
21	053-0297-09	409 Nameplate	1
22	061-0657-00	Lock/Unlock Label	1
23		Cabinet (Refer to “Cabinet Assembly” Elsewhere)	Ref
24	030-1103-10	Upper Wrap Weldment	1
25	041-0250-00	Nut	1
26	042-0172-00	J-Bolt	1

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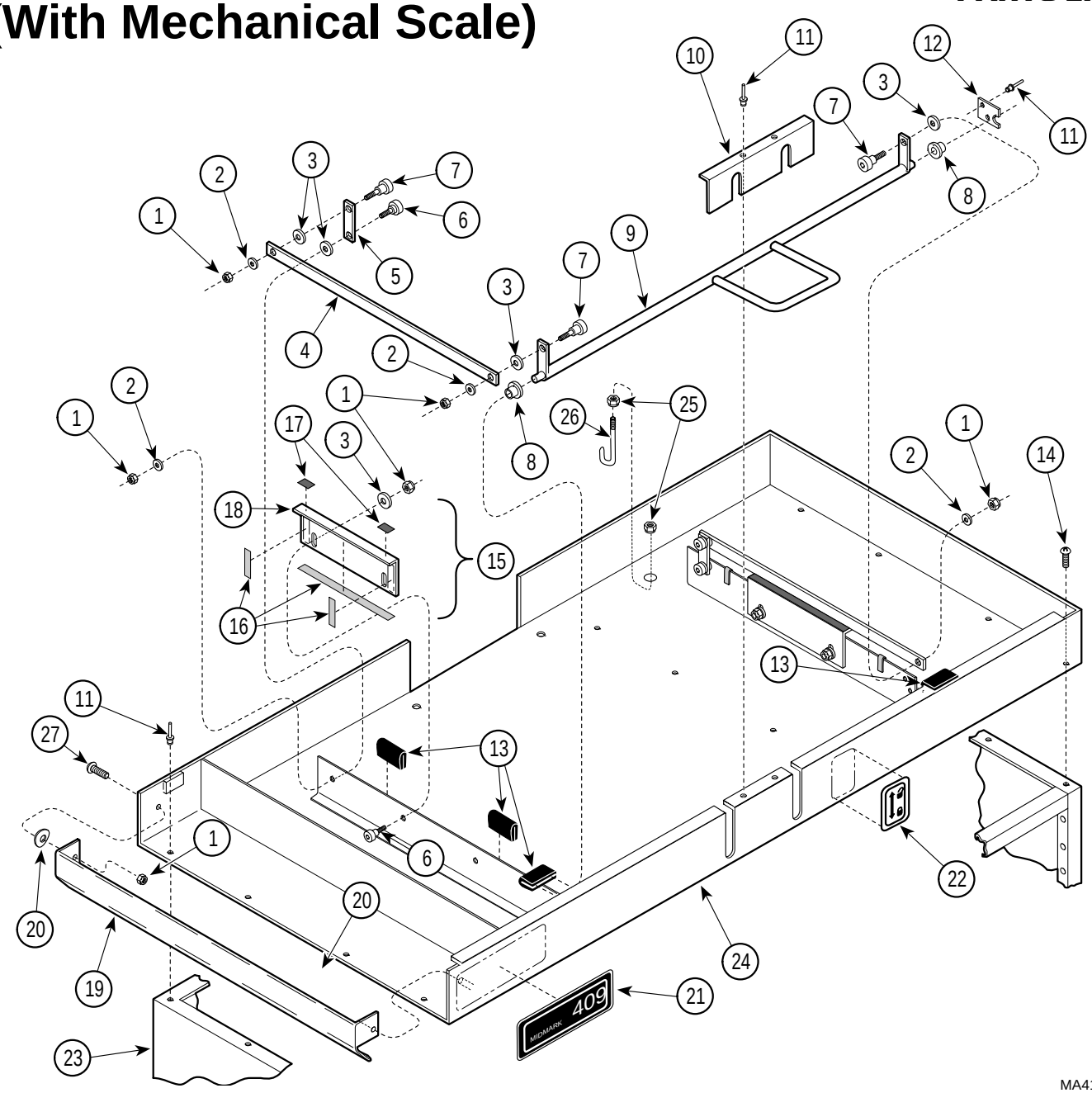
Upper Wrap (With Mechanical Scale)



MA412101

Used on Units with Serial Numbers JS1387 Thru Present

Item	Part No.	Description	Qty
1	041-0010-02	Nut	11
2	053-0382-00	Plastic Washer	6
3	053-0382-01	Plastic Washer	10
4	051-0630-40	Tie Bar	2
5	051-0627-40	Level Bar	2
6	040-0010-85	Shoulder Screw	6
7	042-0014-21	Shoulder Screw	4
8	053-0114-03	Nylon Bearing	2
9	030-1105-10	Handle Weldment	1
10	050-3967-10	Handle Bracket	1
11	042-0010-04	Pop Rivet	4
12	050-3940-40	Retaining Clip	1
13	053-0665-17	Edge Protector, 1.25”	6
14	040-0010-00	Screw	8

Item	Part No.	Description	Page
15	029-1269-00	Bracket Assembly (Includes Items 16-18)	
16	• 053-0018-00	• Nylon Tape (Sold by the inch)	14
17	• 053-0716-00	• Neophrene Bumper	2
18	• 050-3961-40	• Lock Bracket	1
19	050-4761-10	Paper Roll Door	1
20	045-0001-20	Curved Washer	1
21	053-0297-09	409 Nameplate	1
22	061-0657-00	Lock/Unlock Label	1
23		Cabinet (Refer to “Cabinet Assembly” Elsewhere)	Ref
24	030-1246-10	Upper Wrap Weldment	1
25	041-0250-00	Nut	1
26	042-0172-00	J-Bolt	1
27	040-0010-06	Screw	1

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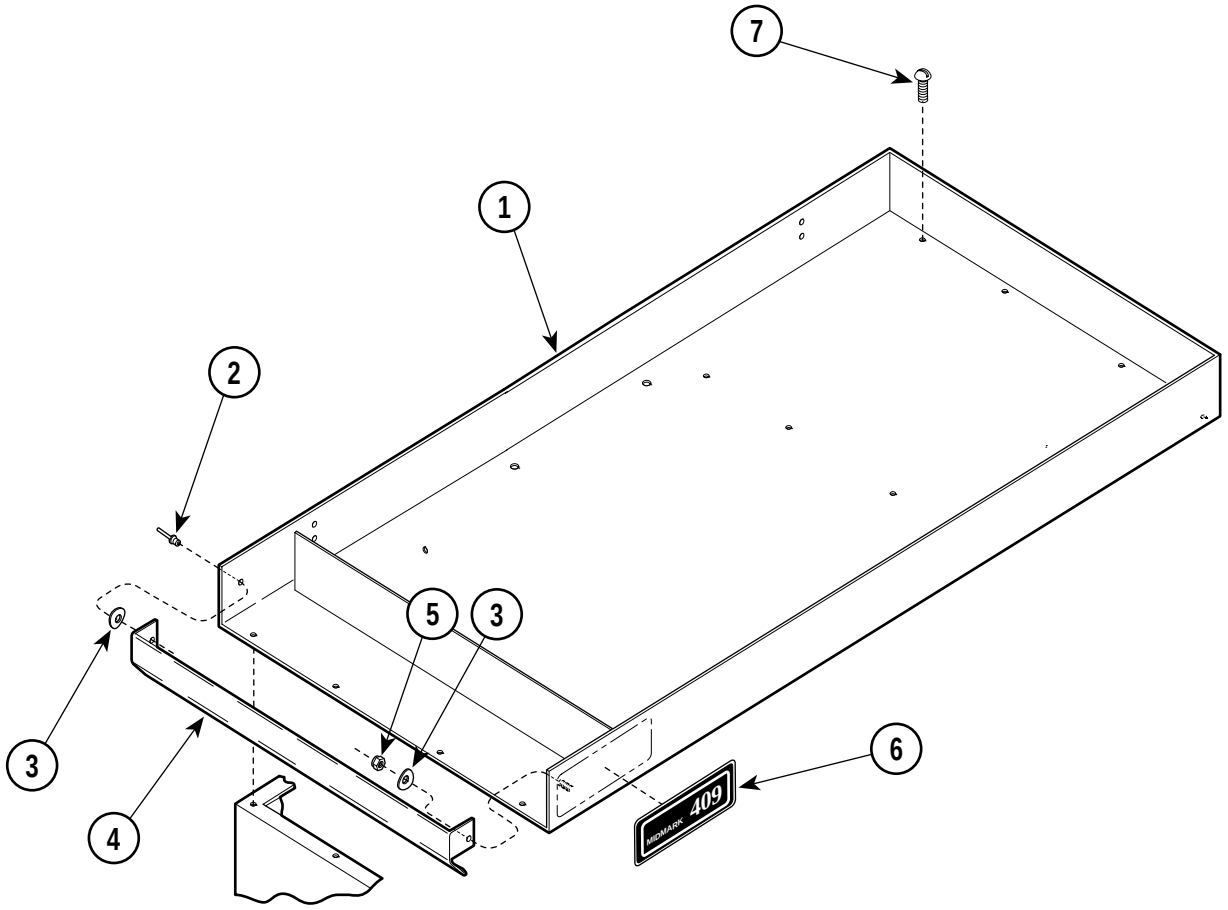
Upper Wrap (W/O Mechanical Scale)



MA412200

Used on Units with Serial Numbers JS1000 Thru JS1386

Item	Part No.	Description	Qty
1	030-1106-10	Upper Wrap Weldment	1
2	042-0010-02	Pop Rivet	1
3	045-0001-12	Curved Washer	2
4	050-3943-10	Paper Roll Cover	1
5	041-0010-02	Nut	1
6	053-0297-09	409 Name Plate	1
7	040-0010-00	Screw	8

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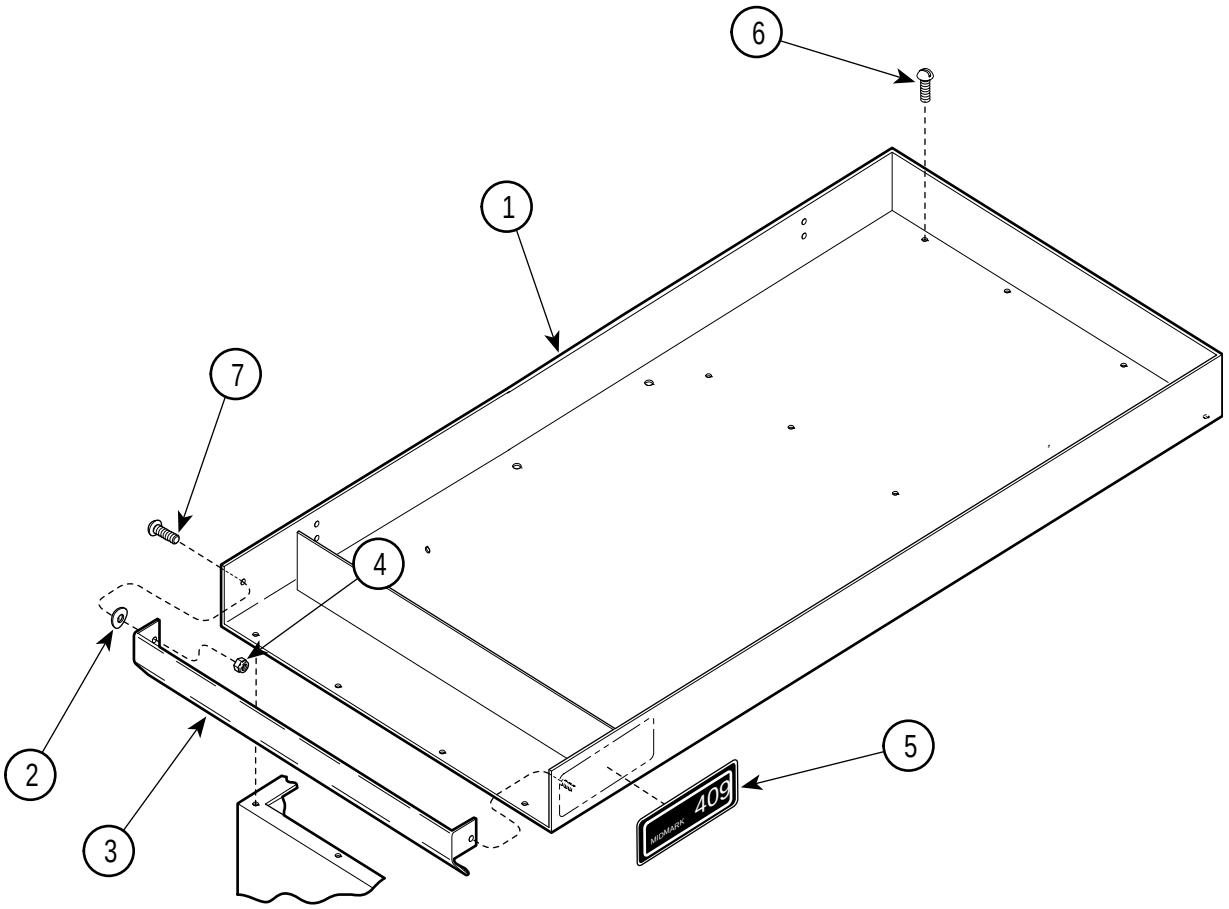
Upper Wrap (W/O Mechanical Scale)



MA412200

Used on Units with Serial Numbers JS1387 Thru Present

Item	Part No.	Description	Qty
1	030-1247-10	Upper Wrap Weldment	1
2	045-0001-12	Curved Washer	1
3	050-3943-10	Paper Roll Cover	1
4	041-0010-02	Nut	1
5	053-0297-09	409 Name Plate	1
6	040-0010-00	Screw	8
7	040-0010-06	Screw	1

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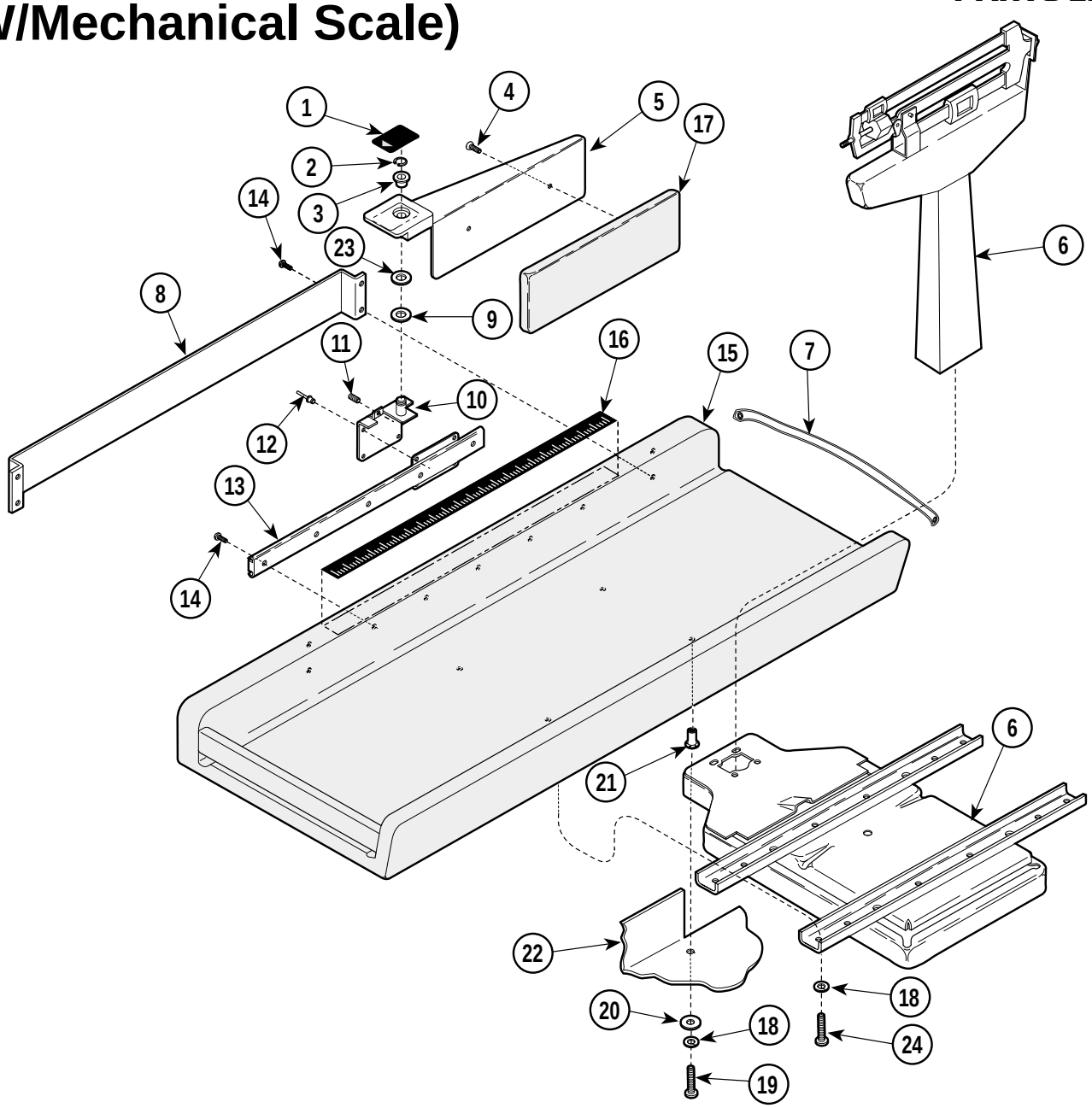
Table Top Assembly (W/Mechanical Scale)



MA404500

Used on Units with Serial Numbers JS1000 Thru Present

Item	Part No.	Description	Qty
1	061-0275-00	Indicator Label	1
2	042-0077-00	Retaining Ring	1
3	053-0114-03	Flanged Bearings	1
4	040-0010-56	Screw	2
5	030-1056-10	Measuring Arm Weldment	1
6	002-0720-00	Mechanical Scale Kit- (For Individual parts ordering, contact Health o Meter Technical Service @ 800-638-3722)	1
7	029-0017-10	Paper Tear Strip	1
8	050-3930-10	Slide Cover	1
9	053-0383-00	Pivot Washer	1
10	030-0715-00	Pivot Bracket Weldment	1
11	040-0010-63	Screw	1
12	042-0010-04	Pop Rivet	4
13	016-0398-00	Linear Motion Slide	1
14	040-0008-46	Screw	9
15	002-0631-00	Upholstered Table top (Includes Item 16 [Specify Color])	1
16	• 061-0273-00	• Scale Label	1
17	028-0263-00	Panel Assembly (Specify Colors)	1
18	045-0001-03	Lockwasher	8
19	040-0250-84	Screw	4
20	045-0001-02	Washer	4
21	042-0045-03	Nutsert	4
22		Upper Wrap (Refer to “Upper Wrap Assembly” Elsewhere”)	Ref.
23	045-0001-109	Pivot Washer	1
24	040-0250-114	Screw	4

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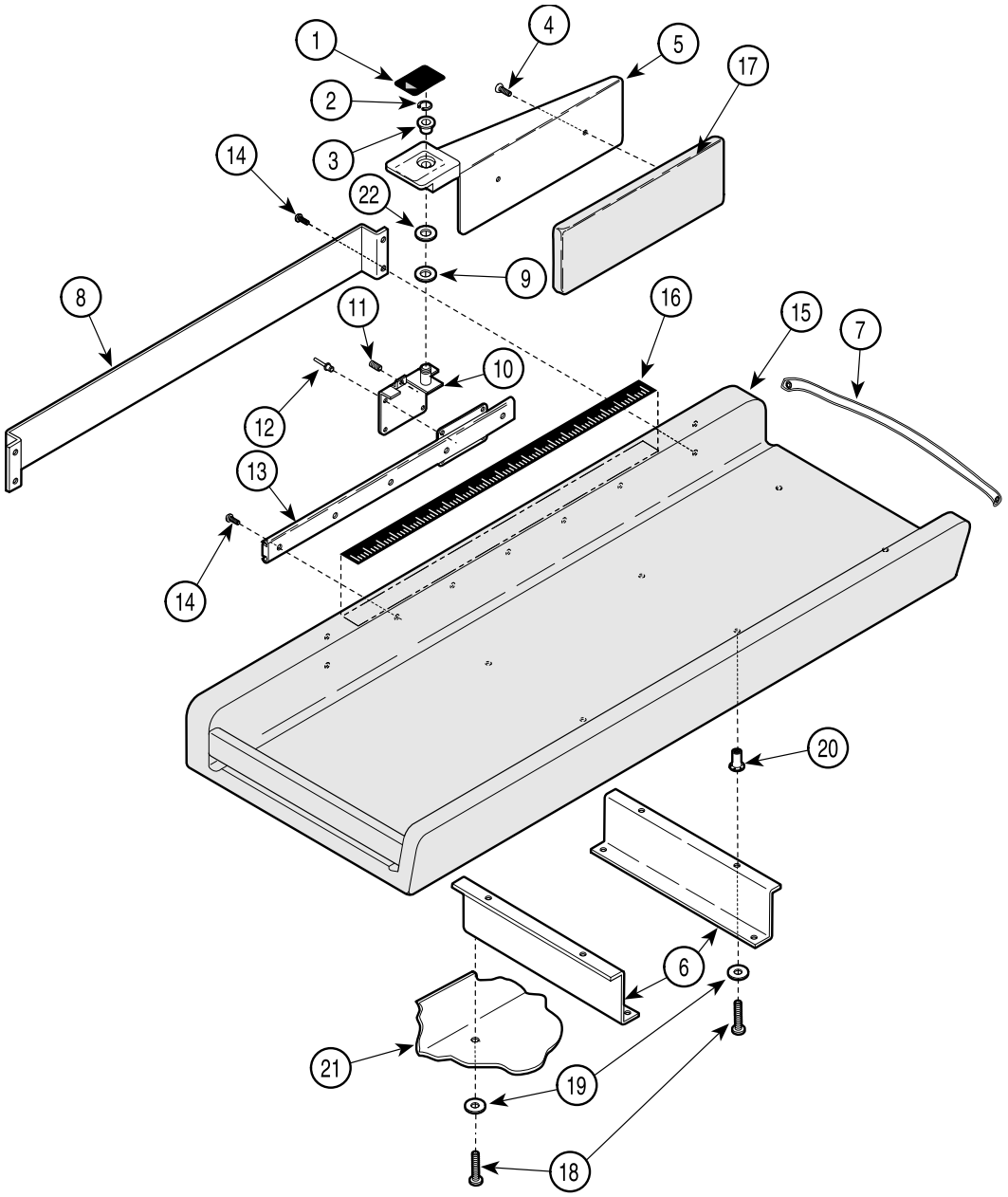
Table Top Assembly (W/O Mechanical Scale)



MA404401

Used on Units with Serial Numbers JS1000 Thru Present

Item	Part No.	Description	Qty
1	061-0275-00	Indicator Label	1
2	042-0077-00	Retaining Ring	1
3	053-0114-03	Flanged Bearings	1
4	040-0010-56	Screw	2
5	030-1056-10	Measuring Arm Weldment	1
6	050-3944-40	Support Bracket Weldment	2
7	029-0017-10	Paper Tear Strip	1
8	050-3930-10	Slide Cover	1
9	053-0383-00	Pivot Washer	1
10	030-0715-10	Pivot Bracket Weldment	1
11	040-0010-63	Screw	1
12	042-0010-04	Pop Rivet	4
13	016-0398-00	Linear Motion Slide	1
14	040-0008-46	Screw	9
15	002-0631-00	Upholstered Table top (Includes Item 16 [Specify Color])	1
16	• 061-0273-00	• Scale Label	1
17	028-0263-00	Panel Assembly (Specify Colors)	1
18	040-0250-121	Screw	8
19	045-0001-02	Washer	8
20	042-0045-03	Nutsert	4
21		Upper Wrap (Refer to “Upper Wrap Assembly” Elsewhere”)	Ref.
22	045-0001-109	Pivot Washer	1

Always Specify Model & Serial Number

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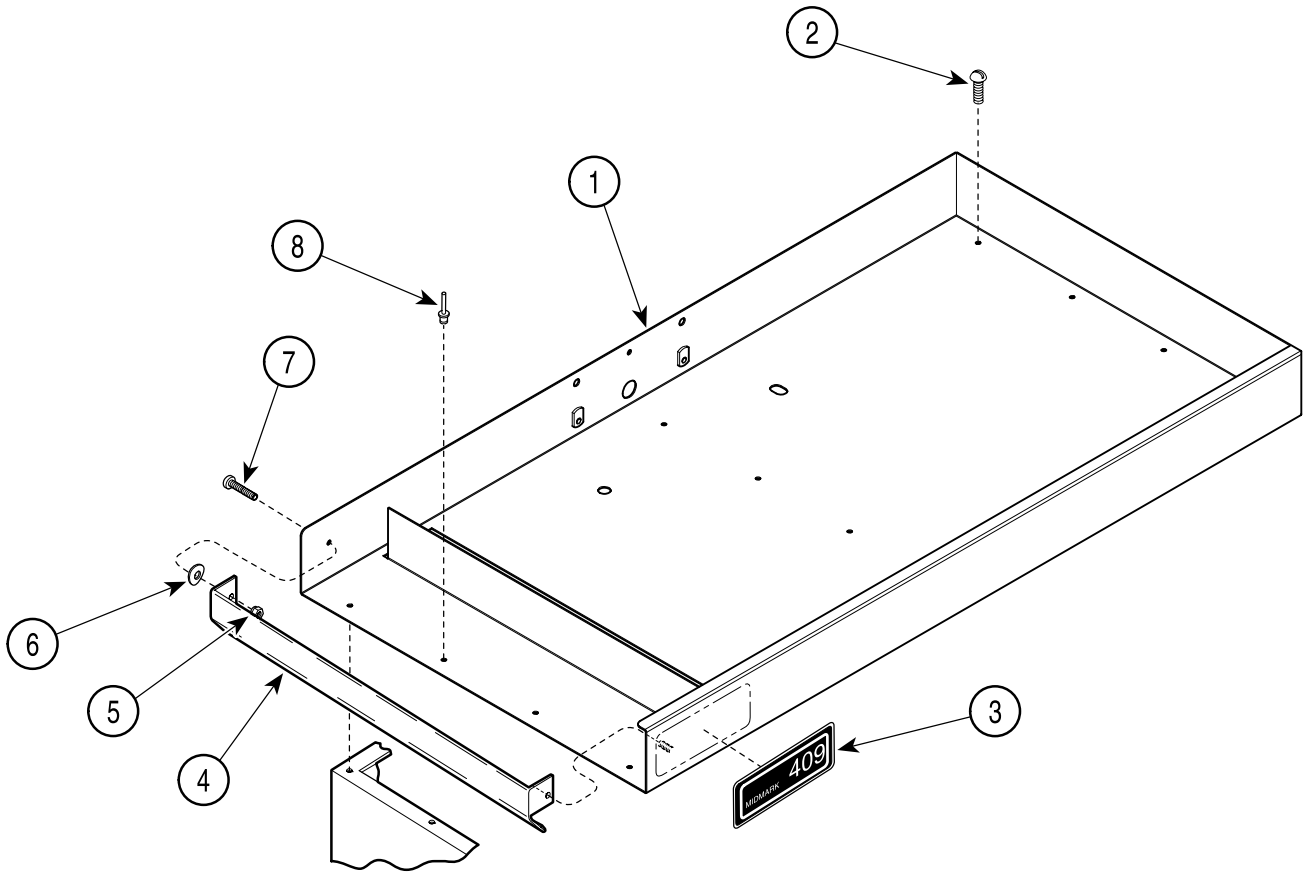
Upper Wrap Assembly (With or W/O Digital Scale)



MA578800

Used on Units with Serial Numbers PP1000 Thru Present

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	030-1308-10	Upper Wrap Weldment	1	5	041-0010-02	Locknut	1
2	040-0010-00	Screw	8	6	045-0001-12	Spring Washer	1
3	053-0297-09	409 Nameplate	1	7	040-0010-06	Screw	1
4	050-4762-10	Paper Roll Door	1	8	042-0010-04	Pop Rivets	4

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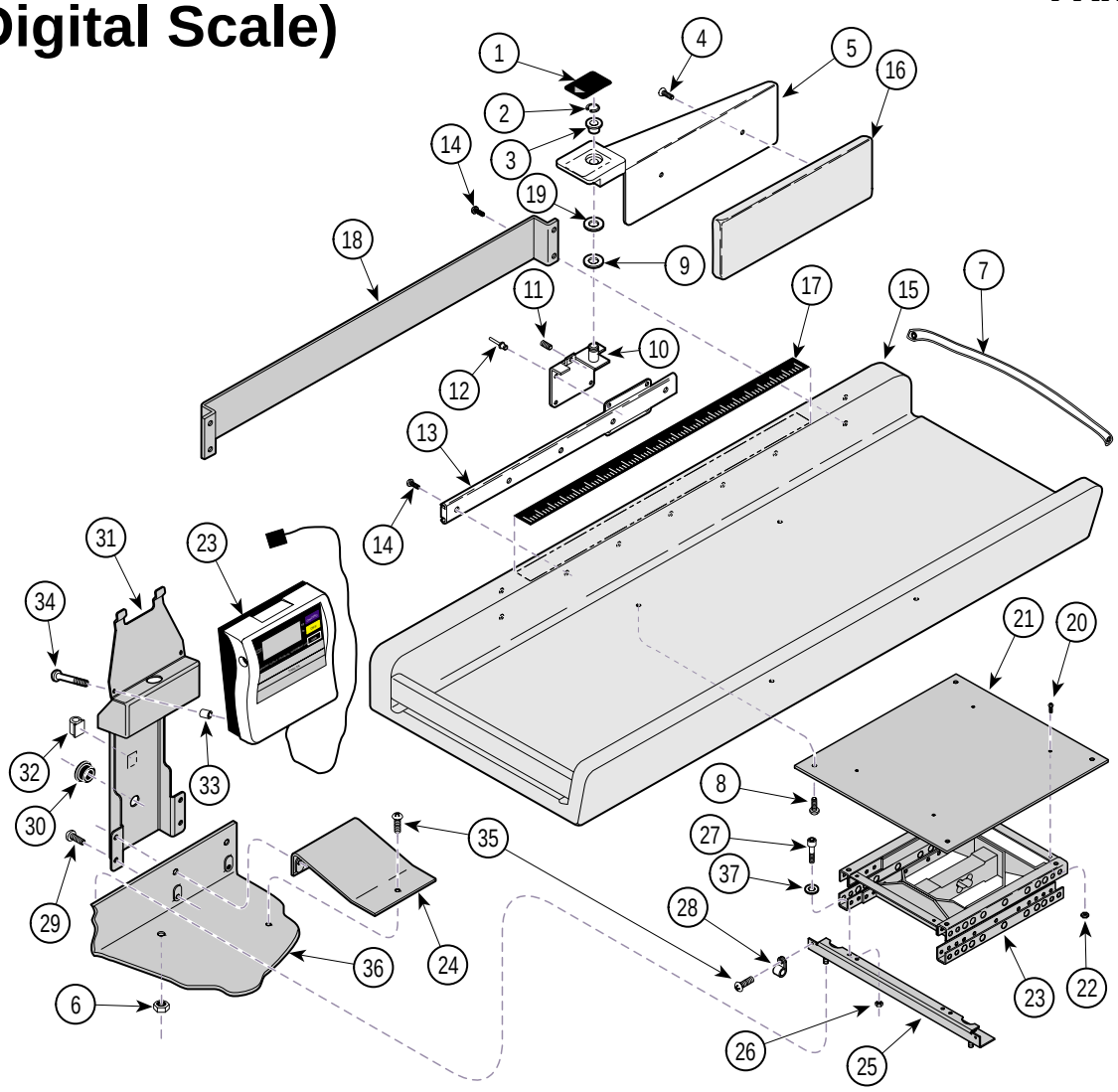
Table Top Assembly (W/Digital Scale)



MA579101i

Used on Units with Serial Numbers PP1000 Thru Present

Item	Part No.	Description	Qty
1	061-0275-00	Indicator Label	1
2	042-0077-00	Snap Ring	1
3	053-0114-03	Nylon Bearing Flange	1
4	040-0010-56	Screw	2
5	030-1056-01	Measuring Arm Weldment	1
6	041-0312-05	Nut	4
7	029-0017-10	Paper Tear Strip	1
8	040-0250-89	Screw	4
9	053-0383-00	Washer Pivot	1
10	030-0715-01	Pivot Bracket Weldment	1
11	040-0010-63	Setscrew	1
12	042-0010-04	Pop Rivet	4
13	016-0398-00	Linear Motion Slide	1
14	040-0008-46	Screw	9
15	002-0708-00	Pediatric Top Assy (incl. #16 & #17) *{specify colors}*	1
16	• 028-0263-00	• Panel Assembly {*specify colors*}	1
17	• 061-0273-00	• Scale Label	1
18	050-3930-01	Slide Cover Bracket	1
19	045-0001-109	Spring Washer	1
20	042-0112-01	Screw	4
21	050-5022-40	Top Scale Mount	1
22	041-0026-02	Nut	4
23		Tanita Electronic Scale (Model # BWB-800) **(For Individual parts ordering, contact TANITA Technical Service @ 847-640-9241)** (Refer to “Tanita Scale Components” Elsewhere)	Ref.
24	030-1314-40	Brace Weldment	1
25	030-1307-40	Scale Mount Weldment	2
26	041-0010-04	Nut w/lockwasher	4
27	040-0010-77	Screw	4
28	015-0014-02	Cable Clamp	1
29	040-0250-84	Screw	4
30	053-0068-10	Snap Bushing	2
31	030-1350-00	Scale Readout Holder	1
32	118167	Clamp	3
33	053-0110-14	Spacer	2
34	040-0006-100	Screw	2
35	040-0008-48	Screw	2
36		Upper Wrap (Refer to “Upper Wrap Assembly”)	Ref.
37	050-5662-00	Washer	4

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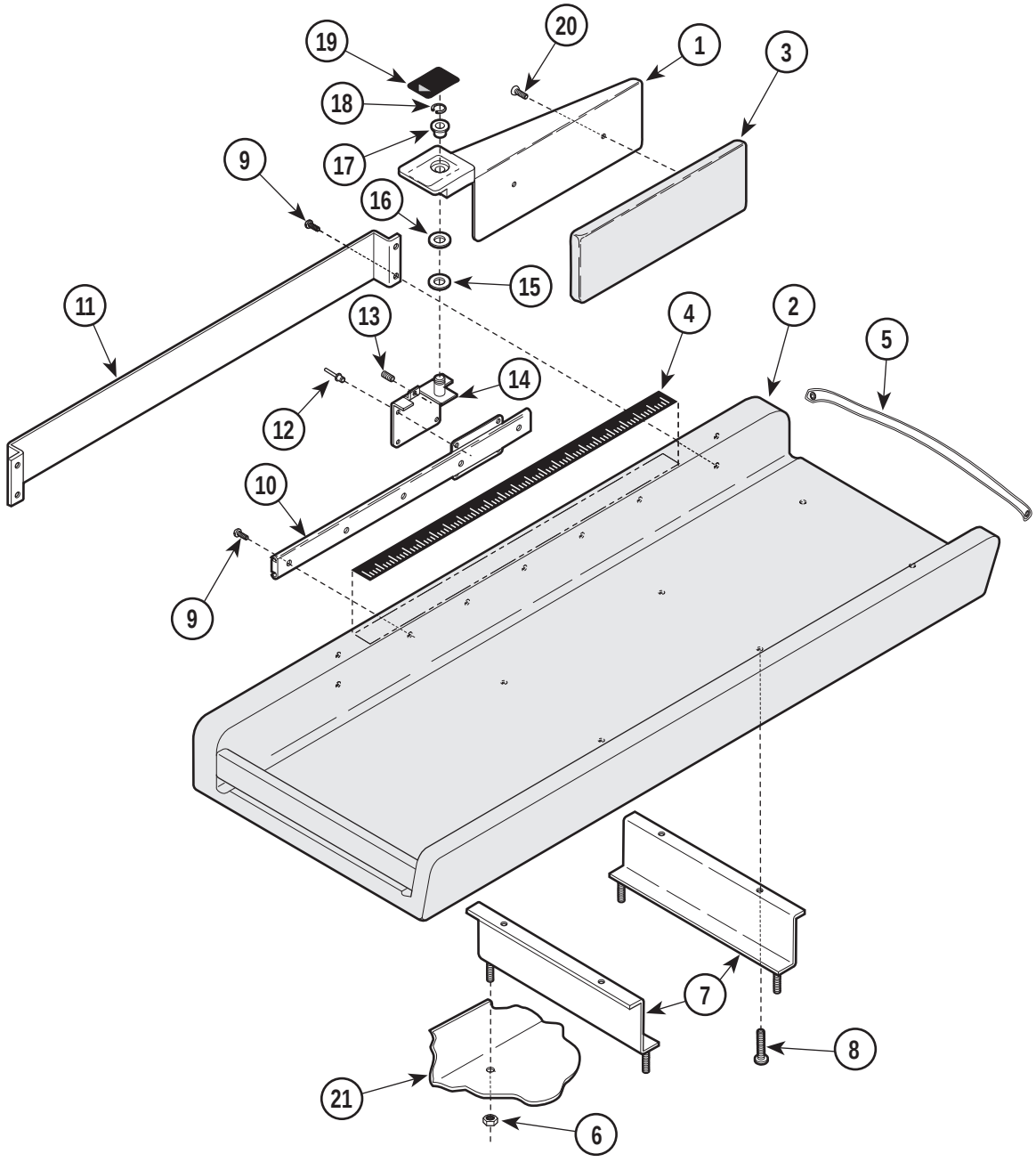
Table Top Assembly (W/O Digital Scale)



MA579000

Used on Units with Serial Numbers PP1000 Thru Present

Item	Part No.	Description	Qty
1	030-1056-01	Measuring Arm Weldment	1
2	002-0708-00	Pediatric Top Assy (incl. #3 & #4) *{specify color}*	1
3	• 028-0263-00	• Panel Assembly *{specify color}*	1
4	• 061-0273-00	• Scale Label	1
5	029-0017-10	Paper Tear Strip	1
6	041-0312-05	Nut	4
7	030-1310-40	No Scale Mount Weldment	2
8	040-0250-89	Screw	4
9	040-0008-46	Screw	9
10	016-0398-00	Linear Motion Slide	1
11	050-3930-01	Slide Cover Bracket	1
12	042-0010-04	Pop Rivet	4
13	040-0010-63	Setscrew	1
14	030-0715-01	Pivot Bracket Weldment	1
15	053-0383-00	Washer Pivot	1
16	045-0001-109	Spring Washer	1
17	053-0114-03	Nylon Bearing Flange	1
18	042-0077-00	Snap Ring	1
19	061-0275-00	Indicator Label	1
20	040-0010-56	Screw	2
21		Upper Wrap (Refer to "Upper Wrap Assembly")	Ref.

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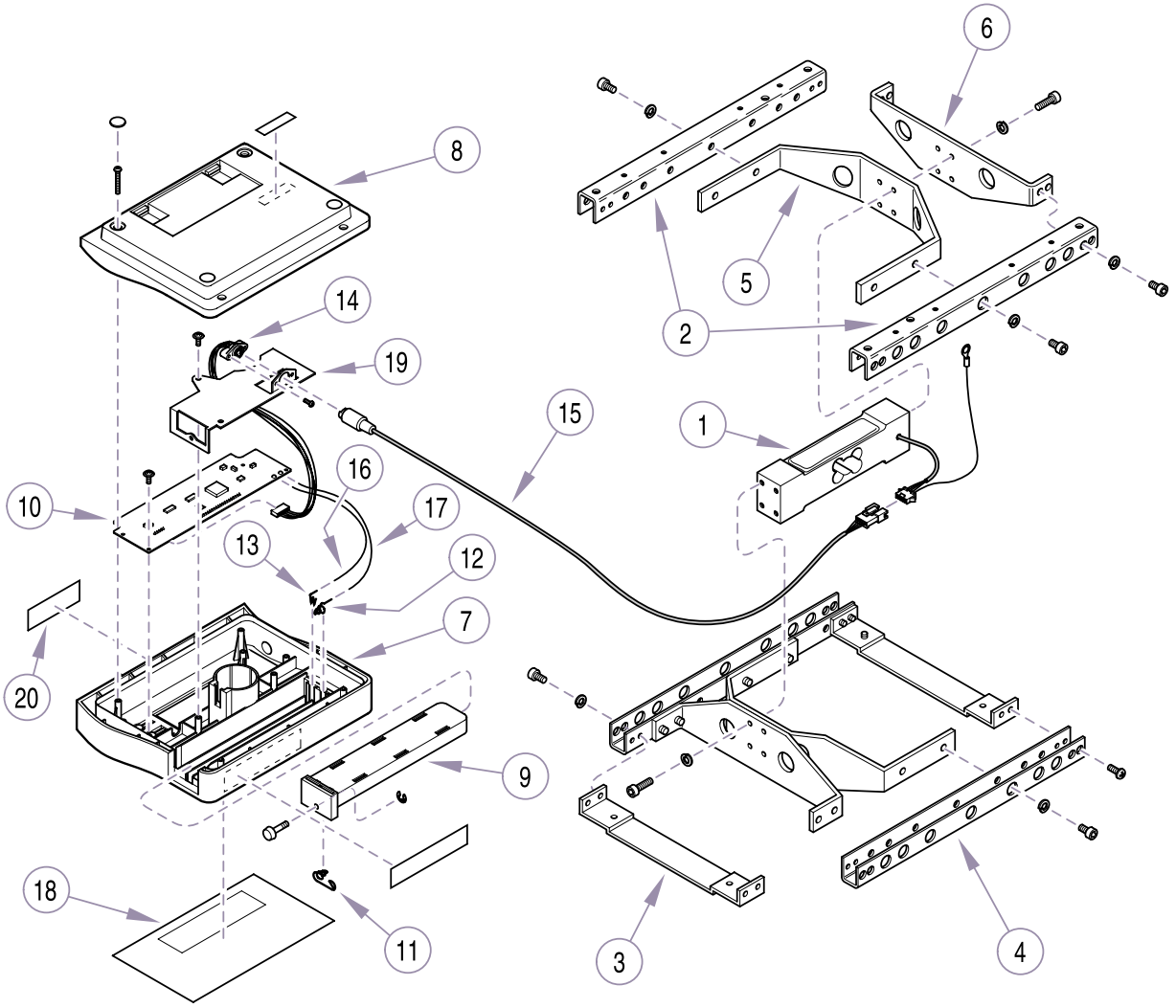
Tanita Scale Components



MA581300i

Used on units with serial numbers PP1000 thru PP1142

Item	Part No.	Description	Qty
	016-0892-00	Tanita Electronic Scale (Model # BWB-800S) **(For Individual parts ordering, contact TANITA Technical Service @ 847-640-9241)**	1
1		Load Cell Assembly (Tanita# 21534871)	1
2		Frame A (Tanita# 21534901)	2
3		Frame B (Tanita# 21534951)	2
4		Frame C (Tanita# 21534921)	2
5		Load Cell Attachment (Tanita# 21534931)	2
6		Frame Supporting Plate (Tanita# 21534941)	2
7		Display Box Upper Housing (Tanita# 21531301)	1
8		Display Box Lower Housing (Tanita# 21531411)	1
9		Battery Box (Tanita# 21531201)	1
10		Display Board Assembly (Tanita# 21538001	1
11		Battery Contact A (Tanita# 21535101)	1
12		Battery Contact B - Negative Terminal (Tanita# 21535111)	1
13		Battery Contact C - Positive Terminal (Tanita# 21535121)	1
14		Connector Assembly (Tanita# 21539241	1
15		Four Pin DIN Code Cable (Tanita# 21539231)	1
16		Lead Wire - Red (Tanita# 21539211)	1
17		Lead Wire - Black (Tanita# 25139221)	1
18		Name Plate - KG / LB (Tanita# 21534401)	1
19		Battery Box Cover (Tanita# 21531211)	1
20		Rating Plate (Tanita# 21534501)	1

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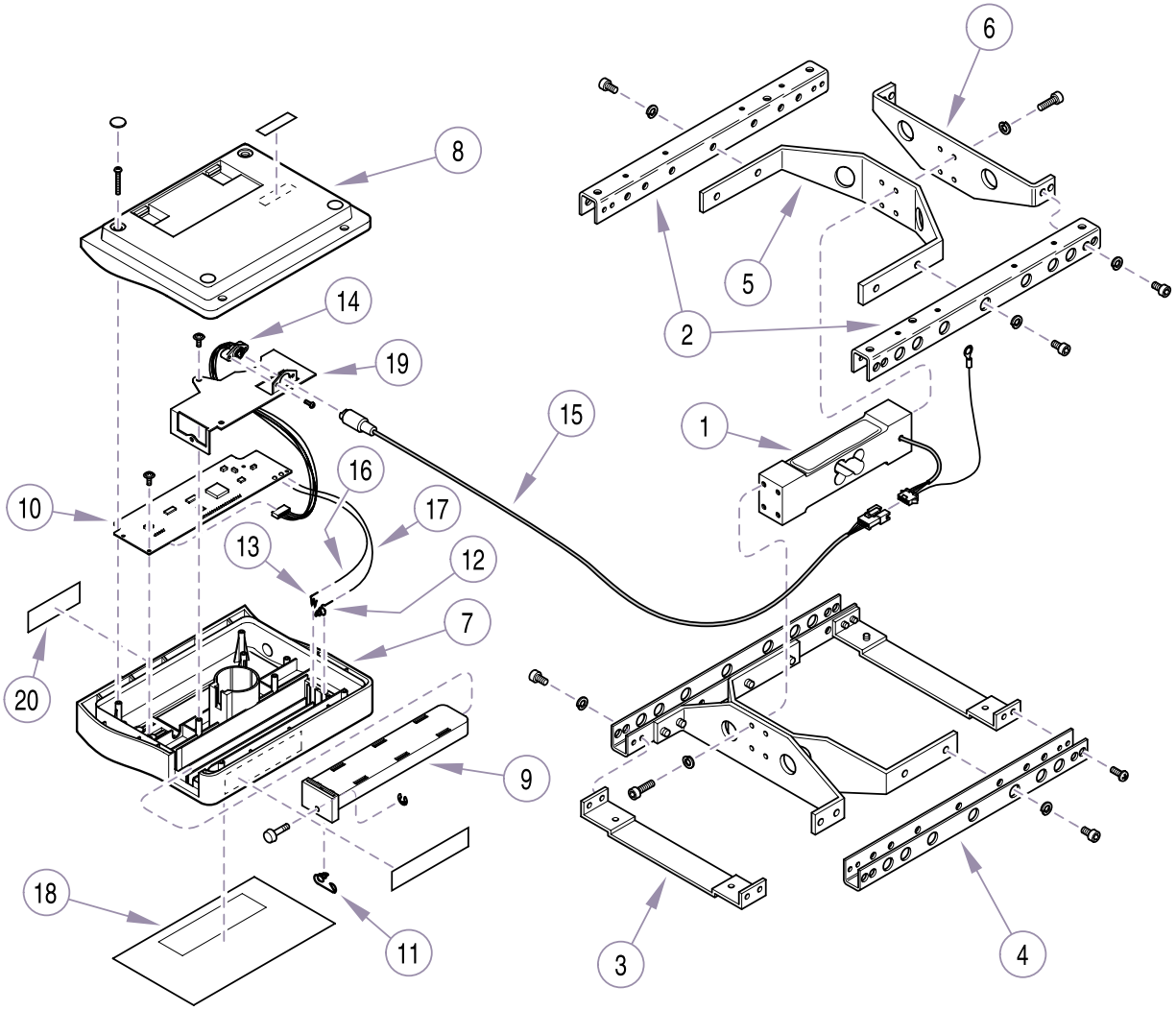
Tanita Scale Components



MA581300i

Used on units with serial numbers PP1143 thru present

Item	Part No.	Description	Qty
	016-0892-01	Tanita Electronic Scale (Model # BWB-800) **(For Individual parts ordering, contact TANITA Technical Service @ 847-640-9241)**	1
1		Load Cell Assembly (Tanita# 21534871)	1
2		Frame A (Tanita# 21534901)	2
3		Frame B (Tanita# 21534951)	2
4		Frame C (Tanita# 21534921)	2
5		Load Cell Attachment (Tanita# 21534931)	2
6		Frame Supporting Plate (Tanita# 21534941)	2
7		Display Box Upper Housing (Tanita# 21531301)	1
8		Display Box Lower Housing (Tanita# 21531411)	1
9		Battery Box (Tanita# 21531201)	1
10		Display Board Assembly (Tanita# 21538001	1
11		Battery Contact A (Tanita# 21535101)	1
12		Battery Contact B - Negative Terminal (Tanita# 21535111)	1
13		Battery Contact C - Positive Terminal (Tanita# 21535121)	1
14		Connector Assembly (Tanita# 21539241	1
15		Four Pin DIN Code Cable (Tanita# 21539231)	1
16		Lead Wire - Red (Tanita# 21539211)	1
17		Lead Wire - Black (Tanita# 25139221)	1
18		Name Plate - KG / LB (Tanita# 21534401)	1
19		Battery Box Cover (Tanita# 21531211)	1
20		Rating Plate (Tanita# 21534501)	1

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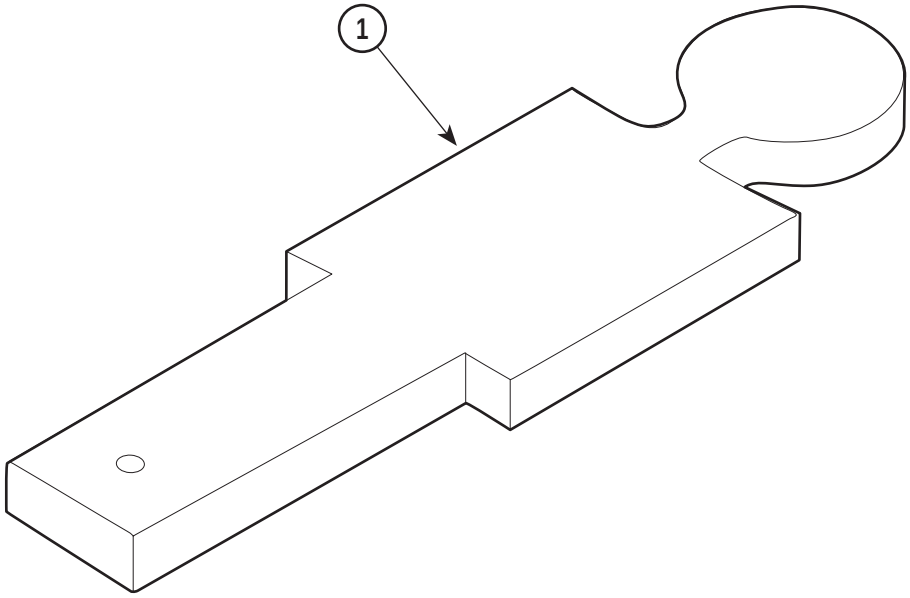
Weight Calibration



MA455900

Used on Units with Serial Numbers JS1000 Thru Present

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	050-4086-40	Calibration Weight	1				

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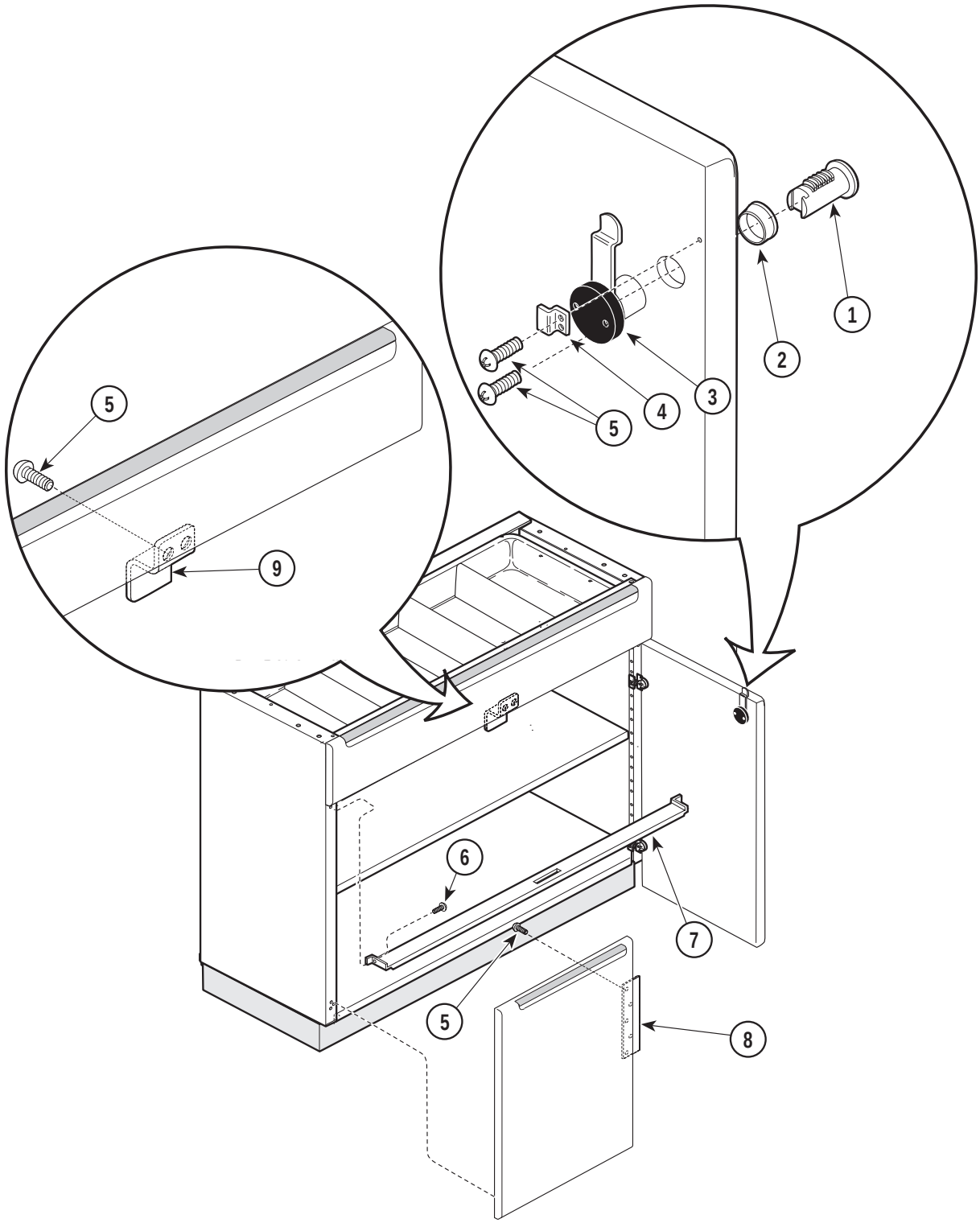
Key and Lock Assembly



MA443500

Used on Units with Serial Numbers JS1000 and PP1000 Thru Present

Item	Part No.	Description	Qty
	9A237001	Key and Lock Assembly (Includes Items 1 thru 8)	1
1	• 016-0567-05	• Lock Plug	1
2	• 016-0564-00	• Lock Bezel	1
3	• 016-0645-00	• Cylinder Lock	1
4	• 016-0646-00	• Strike Plate	1
5	• 040-0006-63	• Screw	11
6	• 040-0010-18	• Screw	2
7	• 050-3972-10	• Mullion (Locking)	1
8	• 050-0366-01	• Door Plate	1

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FAX ORDERING FORM

(SERVICE PARTS ONLY)

NOTES:

- **ALL BLOCKED AREAS MUST BE COMPLETED.**
- **USE FOR NON-WARRANTY FAX ORDERS ONLY. WARRANTY ORDERS MUST BE TELEPHONED IN (1-800-MIDMARK).**

ATTENTION: SERVICE DEPARTMENT FAX#: 877-249-1793

ACCT #: _____ **P.O. #:** _____ **DATE:** _____

NAME: _____ **SHIP TO:** _____

ADDRESS: _____

CITY, ST.: _____

CONTACT: _____

PHONE: _____

☐ **NON-EMERGENCY ORDER - TO SHIP WITHIN 72 HOURS IF PART(S) IN STOCK.**

☐ **EMERGENCY ORDER - TO SHIP WITHIN 24 HOURS IF PART(S) IN STOCK (IF ORDER IS RECEIVED BEFORE 1:30 P.M. E.S.T).**

SEND NOTIFICATION IF PARTS ARE NOT AVAILABLE TO SHIP WITHIN 24 HOURS VIA E-MAIL OR FAX TO: _____

METHOD OF SHIPMENT **OTHER** _____

UPS	FED EX
☐ NEXT DAY A.M.	☐ NEXT DAY A.M.
☐ NEXT DAY P.M.	☐ NEXT DAY P.M.
☐ 2ND DAY	☐ 2ND DAY
☐ GROUND	☐ ECONOMY

QTY.	PART #	DESCRIPTION (SPECIFY COLOR OF ITEM IF APPLICABLE)	COLOR CODE	PRICE/PER
			TOTAL COST: $	

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